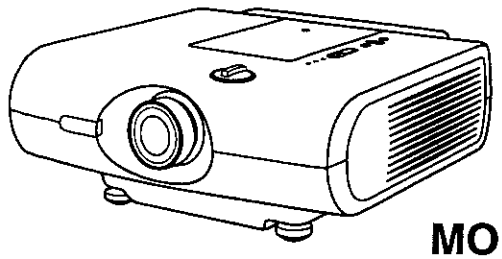
SHARP SERVICE MANUAL SERVICE-ANLEITUNG 维修手册

S99O9XV-C100A



LCD PROJECTOR
LCD PROJEKTOR
液晶投影机

MODELS
MODELLE
型号

XV-C100A/M/E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

为了用户安全起见（根据一些国家的安全规程的需要），应将液晶投影机保持于最初的状态，而且只能使用与指定物相同的部件。

OUTLINE

The power unit and ballast unit of this model have been modified as follows in the course of production.
This Service Manual covers the processes before and after the power and ballast units have been modified.

ERLÄUTERUNG

Die Netzeinheit und Vorschalteinheit dieses Modells wurden im Laufe der Produktion modifiziert, wie nachstehend erläutert.
Diese Service-Anleitung enthält die Vorgehensweisen, die vor und nach der Modifikation von der Netzeinheit und der Vorschalteinheit anzuwenden sind.

概　要

在生产过程中，本投影机所使用的电源电路装置与镇流电路装置如下变更。
本维修手册同时记载电源电路装置与镇流电路装置的变更前及变更后的内容。

MODEL & UNIT MODELL & EINHEIT 型号与各装置	OLD ALT 旧型	NEW NEU 新型	NUMBERS OF UNITS PRODUCED ANZAHL DER PRODUZIERTEN EINHEITEN 生产变更台数
XV-C100A			
POWER UNIT	DUNTKA001WEV2	←	1~ NEW
BALLAST UNIT	DUNTKA009WEV0	←	
XV-C100M			
POWER UNIT	RDENC0266CEZZ	DUNTKA001WEV2	1~134 OLD
BALLAST UNIT	RDENC0265CEZZ	DUNTKA009WEV0	135~ NEW
XV-C100E			
POWER UNIT	RDENC0266CEZZ	DUNTKA001WEV2	1~28 OLD
BALLAST UNIT	RDENC0262CEZZ	DUNTKA009WEV1	29~ NEW

SHARP CORPORATION

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Specifications

Product type		LCD Projector
Model		XV-C100A/M/E
Video system		PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method		LCD panel × 1, RGB optical shutter method
LCD panel	Panel size	1.32" (20.0 (H) × 26.8 (W) mm)
	Display method	Translucent TN liquid crystal panels
	Drive method	TFT (Thin Film Transistor) Active Matrix panels
	No. of dots	181,470 dots (230 (V) × 789 (H))
Lens		F2, f = 56.5 mm
Projection lamp		155 W Metal halide
Contrast ratio		100:1
Video input signal		RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated RCA Connector: AUDIO, 470 mVrms, more than 22 kΩ (stereo)
S-video input signal		4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): burst 0.286 Vp-p, 75 Ω terminated
Component video input signal		RCA Connector: Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C_B (B-Y)(chrominance signal): 0.7 Vp-p, 75 Ω terminated C_R (R-Y)(chrominance signal): 0.7 Vp-p, 75 Ω terminated RCA Connector: AUDIO, 470 mVrms, more than 22 kΩ (stereo)
Horizontal resolution		360 TV lines (video input)
Audio output		1 W (monaural)
Speaker system		6.5 cm round
Rated voltage		AC 220–240V
Input current		1.3 A
Rated frequency		50/60 Hz
Power consumption		200 W
Standby consumption		4 W
Operating temperature		+5°C to +40°C
Storage temperature		−20°C to +60°C
Cabinet		Plastic
Dimensions (W × D × H)		310 × 317 × 125 mm (main body only) 310 × 319 × 136 mm (including adjuster legs and projecting parts)
Weight		3.8 kg (XV-C100A/M) 4.4 kg (XV-C100E)
Supplied accessories		Remote control unit, Two AAA batteries, Lens cap (installed), Air filter (installed), 21 pin RCA conversion adaptor (Europe only)
Replacement parts		Remote control unit (RRMCG1540PESA), Air filter (PFILD0002PEZZ), 21 pin RCA conversion adaptor (Europe only) (QSOCZ0305CEZZ)

Our projector uses a single LCD (Liquid Crystal Display) panel. This very sophisticated panel contains total of 181,470 dots (RGB Trio 60,490 Pixels) TFTs. (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to.
This unit has some inactive TFTs within acceptable tolerances, which may result in illuminated dots on the picture screen.
This will not affect the picture quality or the life expectancy of the unit.

**Specifications are subject to change without notice.*

NOTE TO SERVICE PERSONNEL

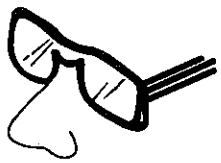
UV-RADIATION PRECAUTION

The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

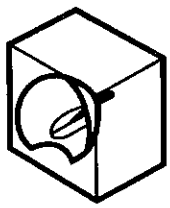
AVOID DIRECT EYE AND SKIN EXPOSURE.

To ensure safety please adhere to the following:

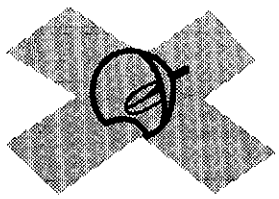
1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.



2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



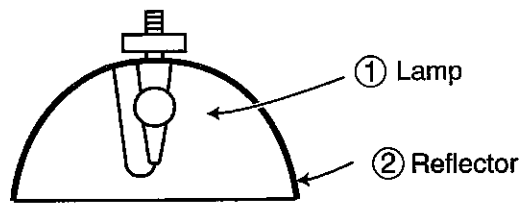
UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0053DE03 rated 65V/155W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

■ Lamp Replacement

Note:

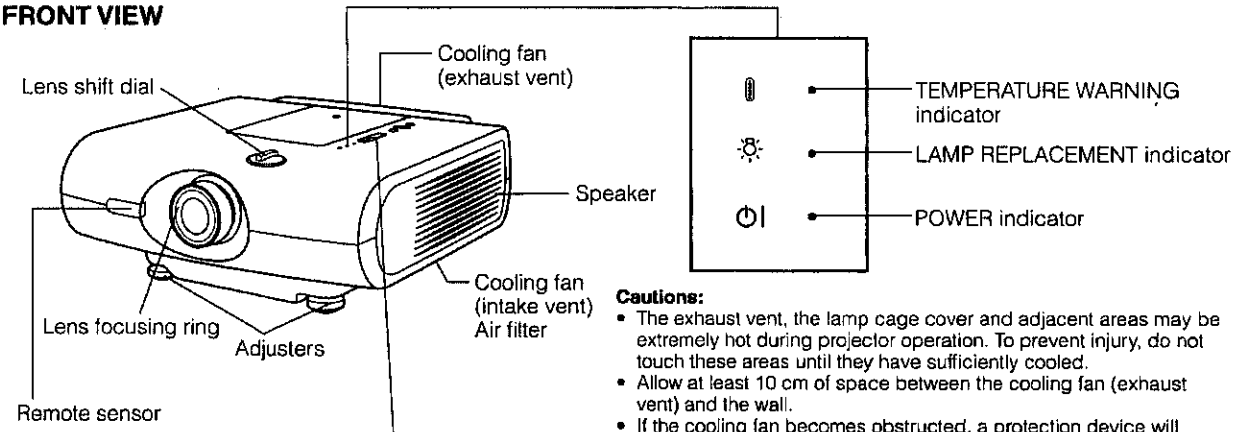
Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)
Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.
[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Location of Controls

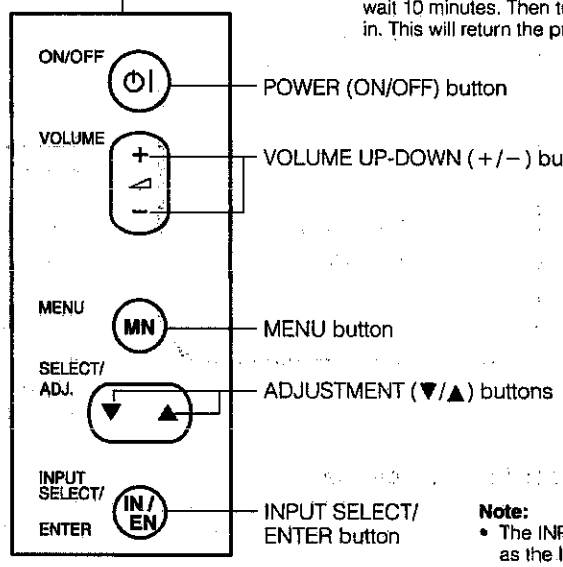
FRONT VIEW



Cautions:

- The exhaust vent, the lamp cage cover and adjacent areas may be extremely hot during projector operation. To prevent injury, do not touch these areas until they have sufficiently cooled.
- Allow at least 10 cm of space between the cooling fan (exhaust vent) and the wall.
- If the cooling fan becomes obstructed, a protection device will automatically turn off the projector lamp. This does not indicate a malfunction. Remove the projector plug from the wall socket and wait 10 minutes. Then turn on the power by plugging the cord back in. This will return the projector to its normal mode.

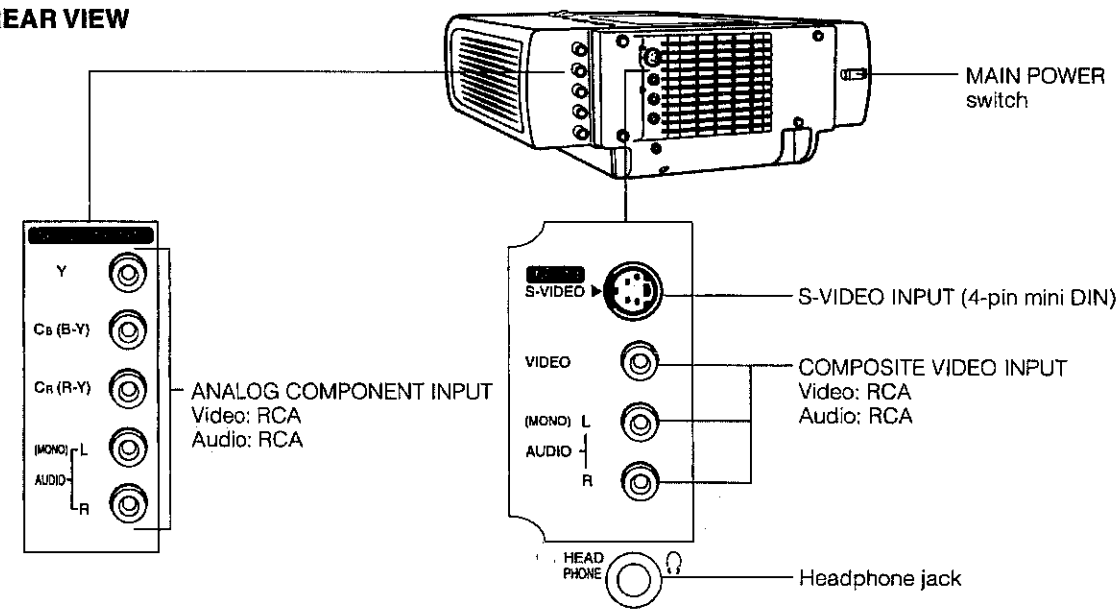
OPERATION PANEL ON TOP OF PROJECTOR



Note:

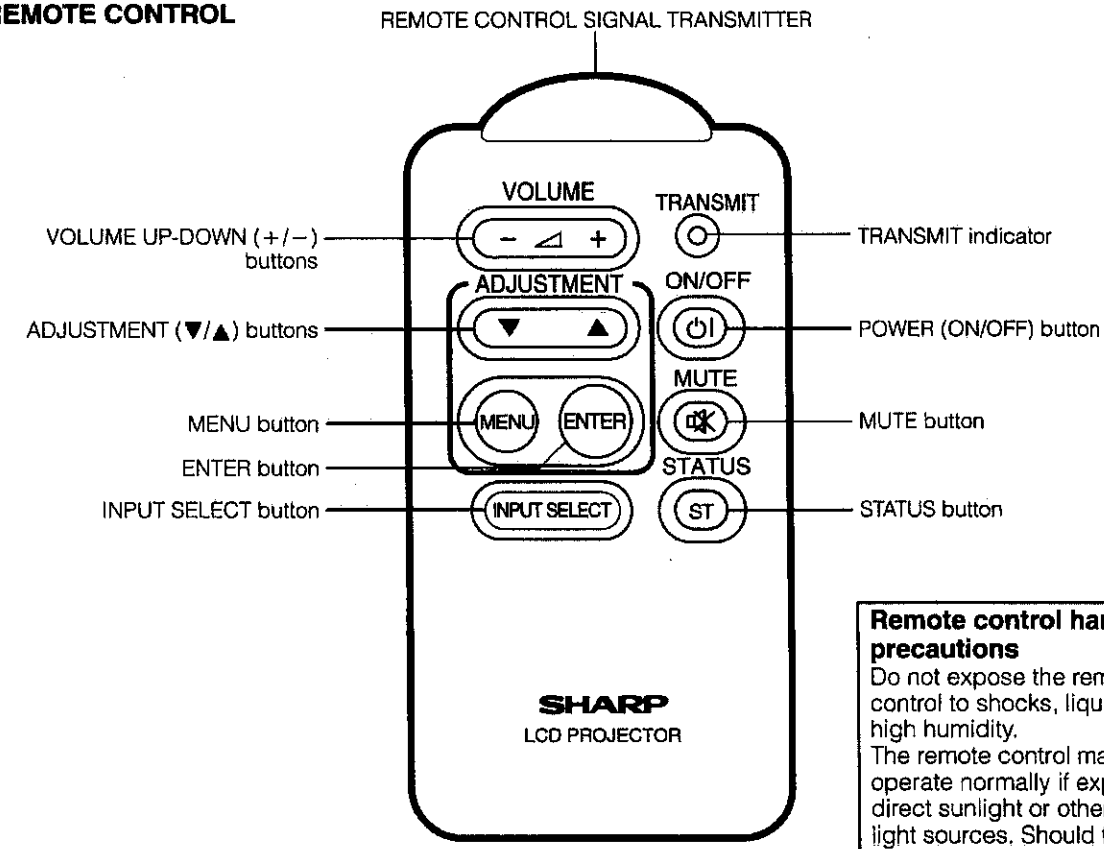
- The INPUT SELECT/ENTER button normally functions as the INPUT SELECT button. However, when "ENTER" appears on the screen for setting, the button functions as the ENTER button.

REAR VIEW



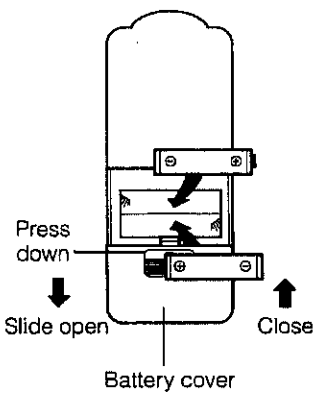
Remote Control Operation

REMOTE CONTROL



Remote control handling precautions

Do not expose the remote control to shocks, liquids or high humidity.
The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the LCD Projector.



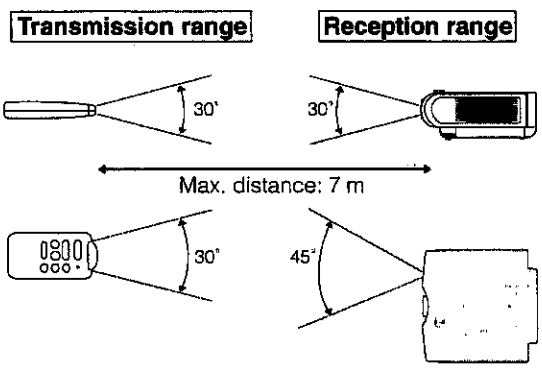
Inserting the batteries

Remove the battery cover as shown and insert two AAA size batteries making sure the polarity matches the (+) and (−) marks inside the battery compartment.

Notes:

Incorrect use of batteries may cause them to leak or burst.

- Insert the batteries with the (+) and (−) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Replace them with new batteries as soon as possible.



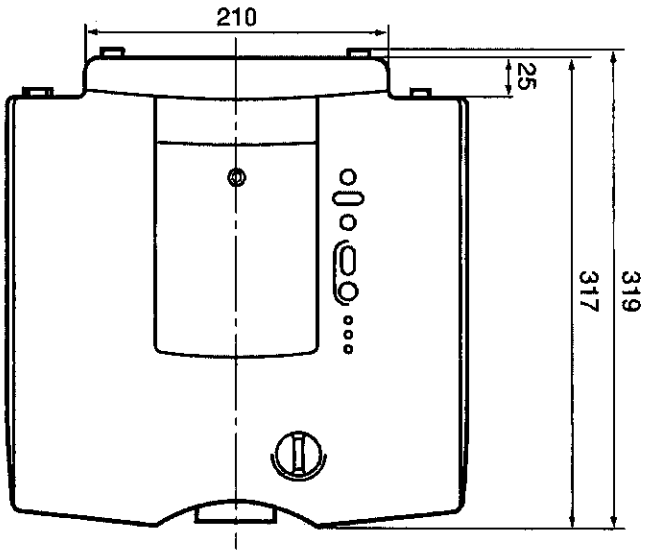
Remote control positioning

Use the remote control as shown in the figures on the left.

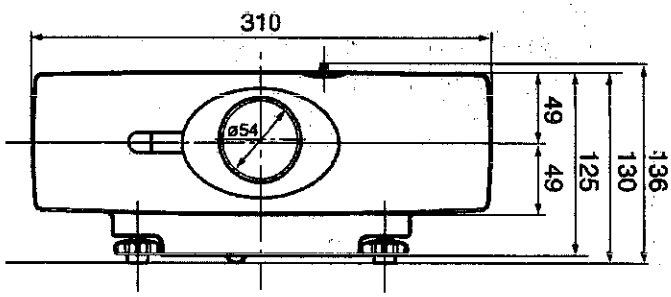
Note:

- The signal from the remote control can be reflected off the screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

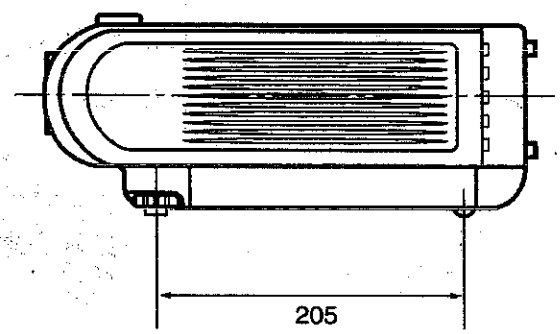
Dimensions



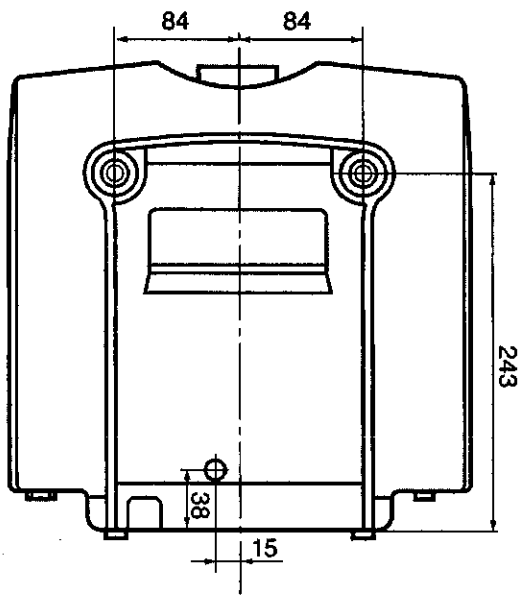
Top View



Front View



Side View



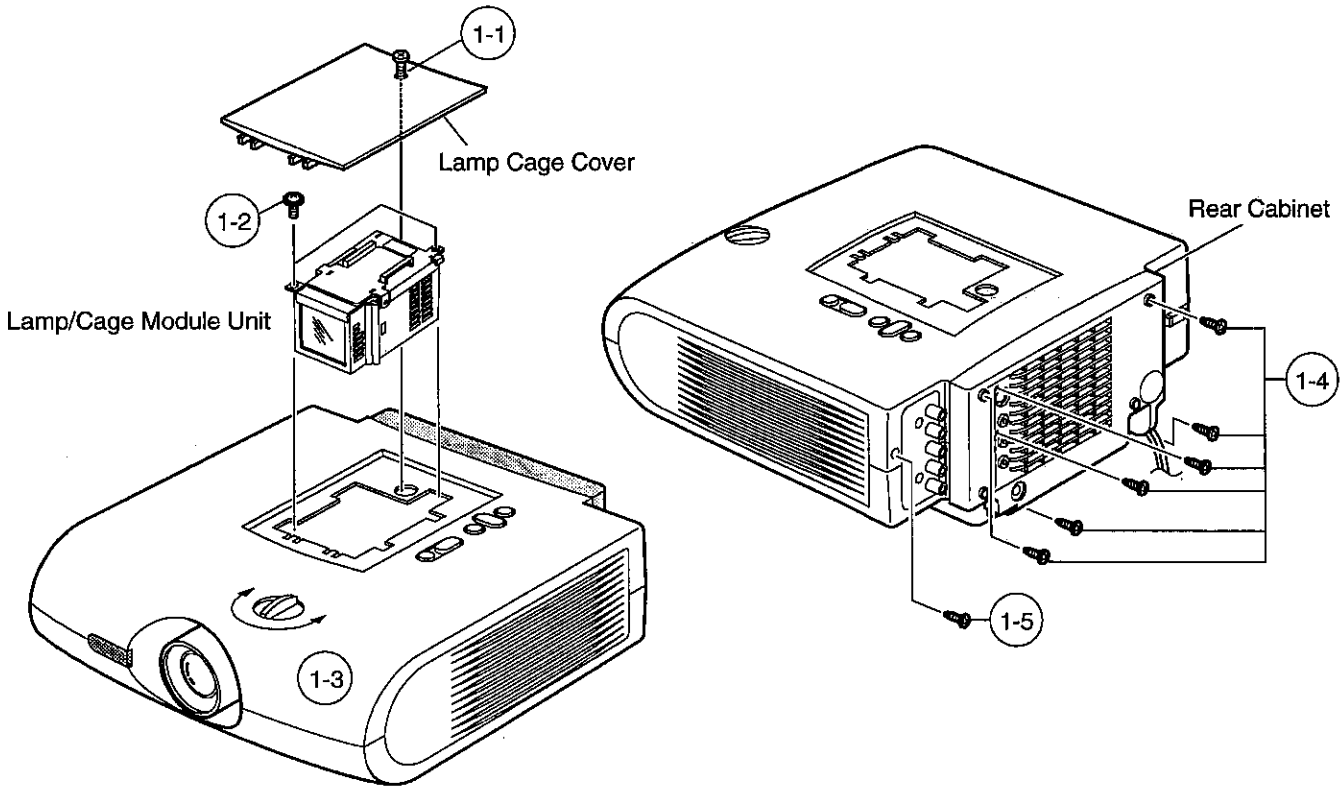
Bottom View

[Units: mm]

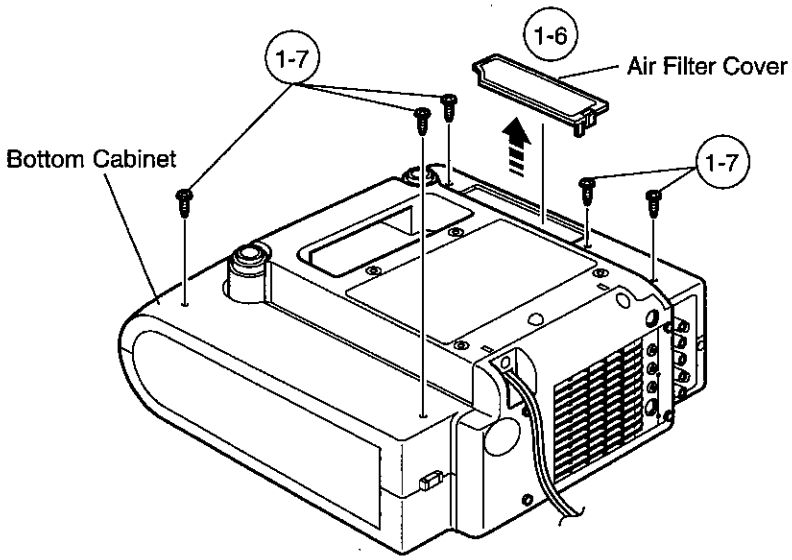
REMOVAL OF MAJOR COMPONENTS

1. Removing the cabinets

1-1. Remove the screw and detach the lamp cage cover.
1-2. Remove the two lock screws (two 4-mm screws) off the lamp/cage module unit.
1-3. Turn the lens shift dial until the lens comes to almost the center of the lens hole in the front cabinet.
1-4. Remove the six screws (six 3-mm tapping screws) off the rear cabinet.
1-5. Remove the M3 tapping screw off the sub unit cover.



1-6. Remove the air filter cover.
1-7. Remove the five tapping screws off the bottom cabinet.



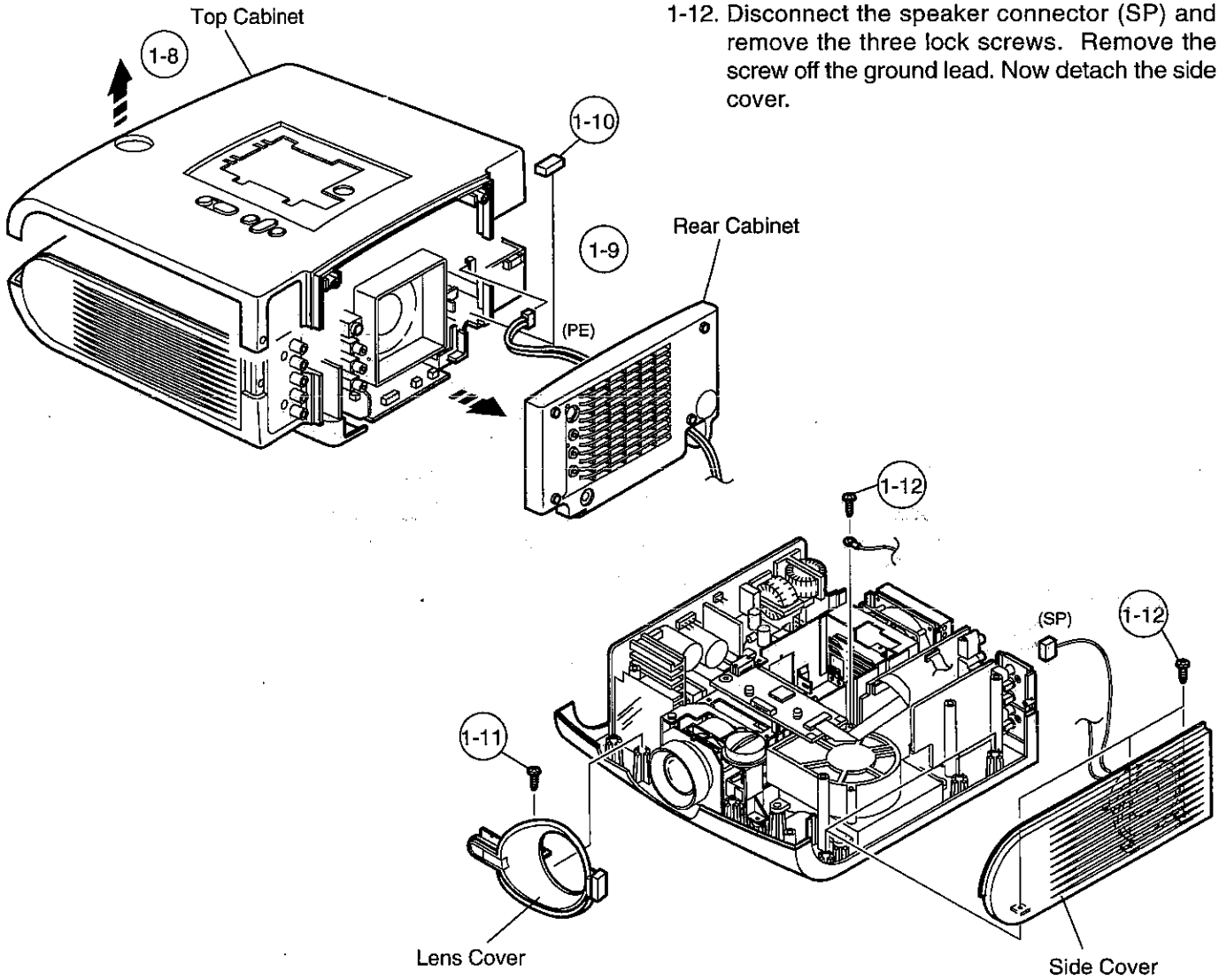
1-8. Now lift the top cabinet further up and disconnect the leaf switch connectors (LL) as well as the operation key unit flat cable (KE). The top cabinet is now free.

1-9. Disconnect the connector (PE) of the AC cord (that runs through the rear cabinet) from the ballast unit. Detach the rear cabinet.

1-10. Remove the spacer.

1-11. Remove the screws off the lens Cover.

1-12. Disconnect the speaker connector (SP) and remove the three lock screws. Remove the screw off the ground lead. Now detach the side cover.



Reassembling procedure

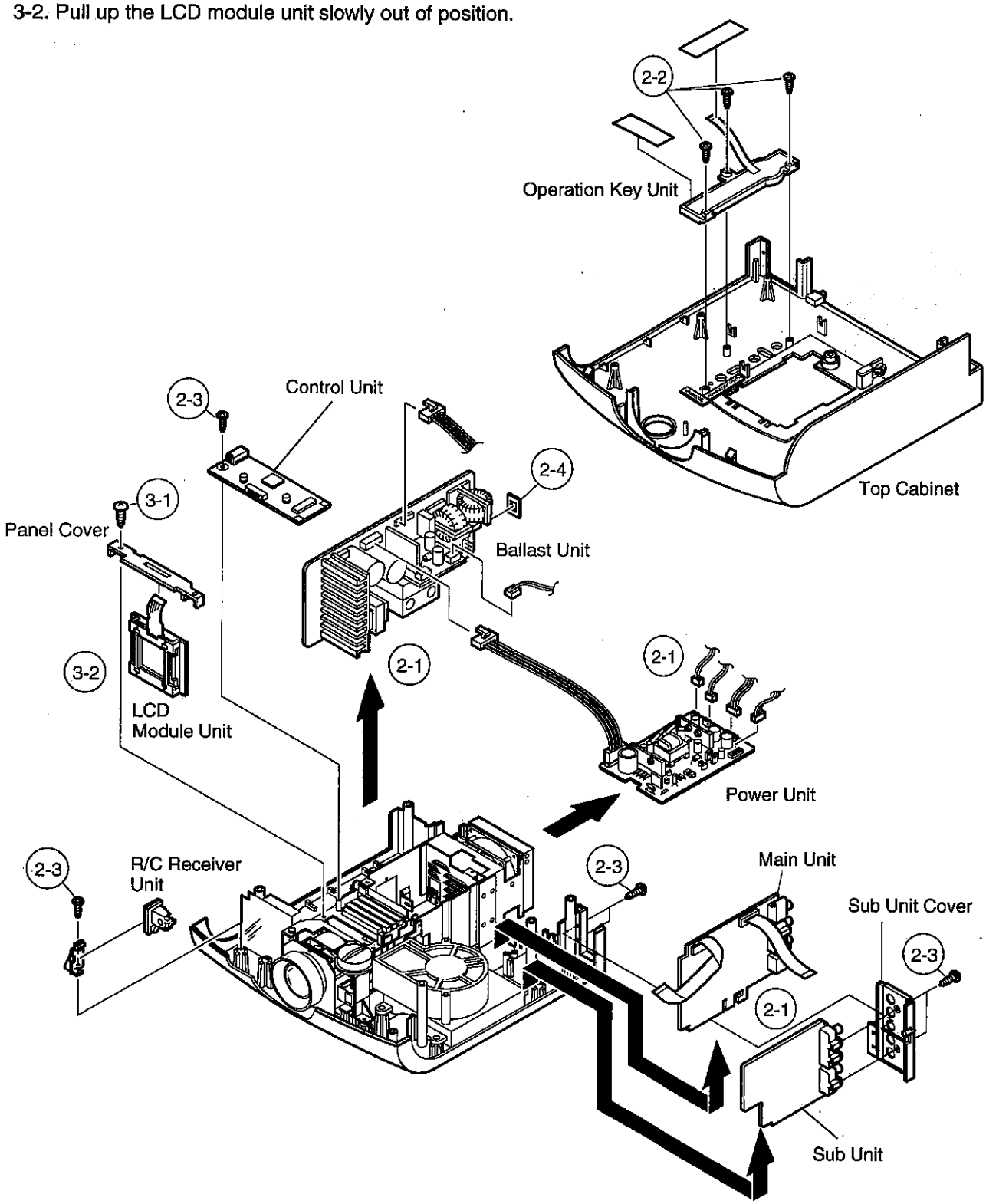
1. Fit the lens cover and the side cover to the bottom panel. Tighten up the related screws.
2. Set the top cabinet over the bottom cabinet.
3. Tighten up the M3 tapping screw into the sub unit cover.
4. Press the rear cabinet against the top and bottom cabinets to fit them together.
5. Tighten up the screws into the rear cabinet. Use the six 3-mm tapping screws.
6. Tighten up the tapping screws to fix the top and bottom cabinets.
7. Put the lamp/cage module unit into position. Tighten up the two 4-mm screws.
8. Place the lamp cage cover and tighten up the screws.

2. Removing the PWBs

2-1. Slide out the power unit, ballast unit, main unit in their directions of arrow. Disconnect the connectors.
2-2. Remove the three screws, peel off the two pieces of tape, and take out the operation key unit.
2-3. Remove the screw off the control unit and R/C Receiver unit and sub unit. Disconnect the connectors.
2-4. Remove the button cover.

3. Removing the LCD module unit

3-1. Remove the screw off the panel cover. Take out the panel cover.
3-2. Pull up the LCD module unit slowly out of position.



4. Removing the optics mechanism assembly

4-1. Remove the four screws off the optics mechanism assembly. Detach the assembly from the bottom cabinet.

4-2. Remove the four screws off the intake duct assembly. Detach the intake duct assembly from the bottom cabinet.

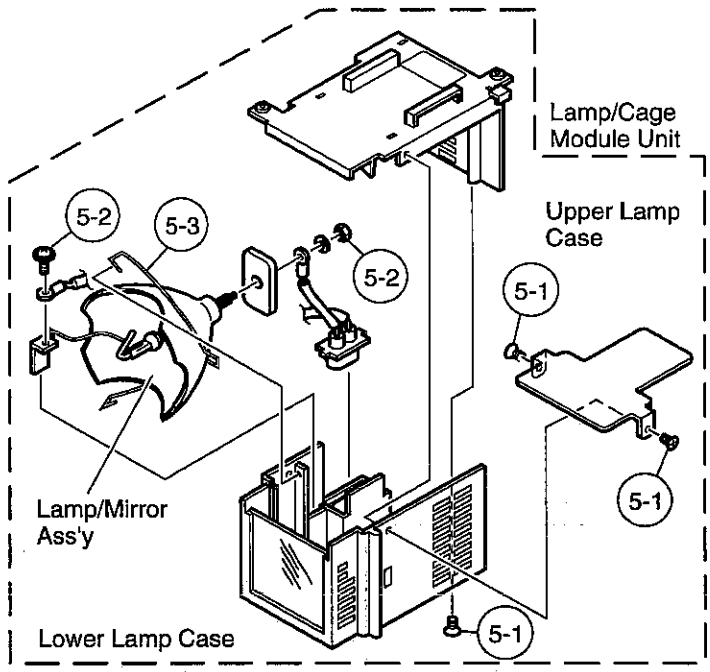
4-3. Remove the two screws off the cooling fan.

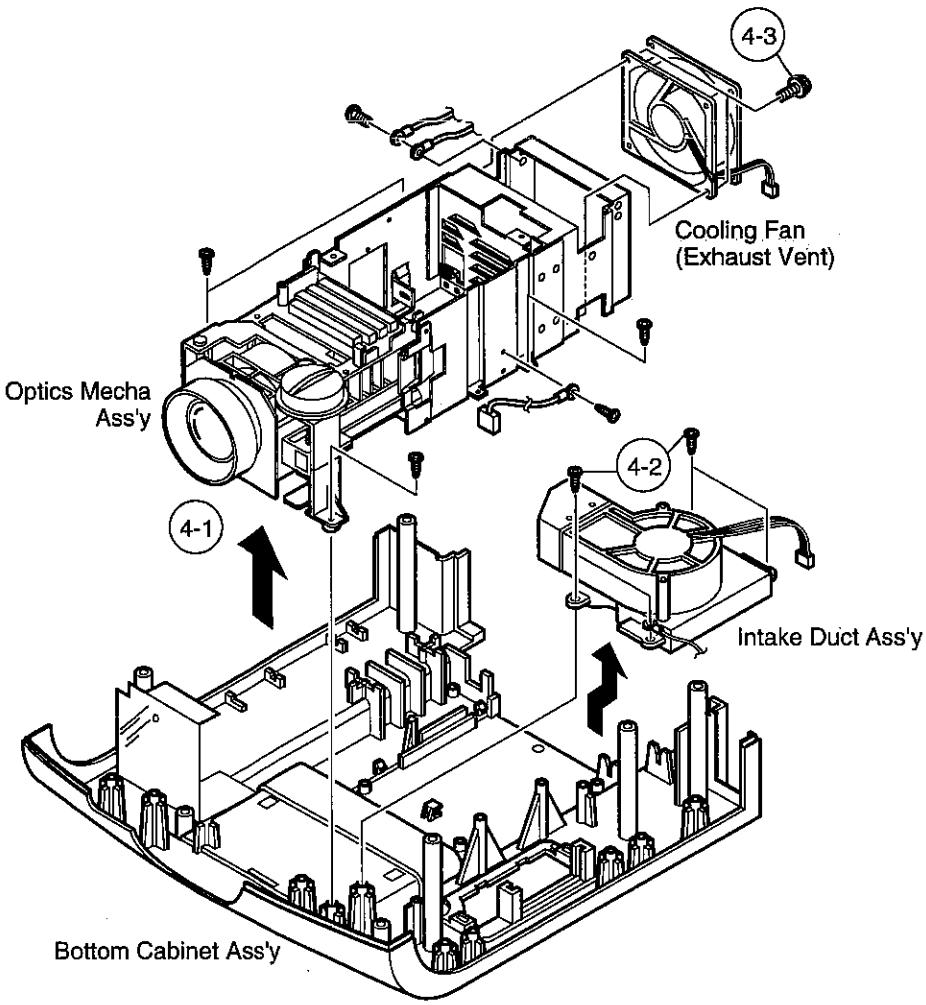
5. Removing the lamp

5-1. Remove the three countersunk lock screws off the upper and lower lamp cases.

5-2. Remove the lock screw and the nut off the lamp terminal.

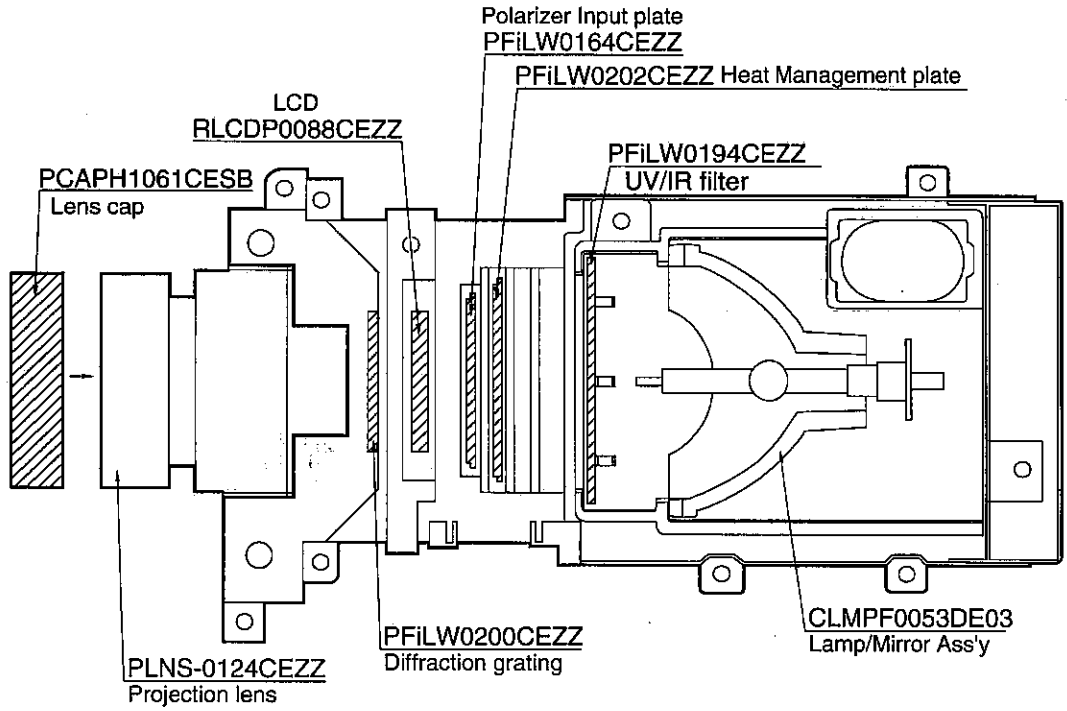
5-3. Release the lamp lock spring off the hook below the lower lamp case. Take out the lamp/mirror assembly.





OPTICAL SYSTEM

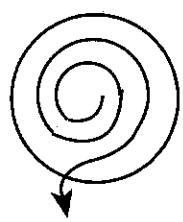
Optical unit



■ Cleaning the lenses and reflectors

1. Lens cleaner

- Cleaning liquid:
  Change the mixture ratio of alcohol and ether depending on ambient temperatures. Make sure that the liquid evaporates from the lens surface immediately after you rub it: This is the best ratio. The more ether is used, the quicker the liquid evaporates.
- Method:
  Use well-washed bleached cotton cloth or cleaning paper available on the market. Damp the bleached cotton cloth with the liquid, and hold the lens sandwiched in the cloth with your thumb and the index finger. Turn the lens and wipe the surface clean from the center outward to collect dust. Be careful not to rub the coated surface too strong.



■ Controlling the total operating hours of the lamp

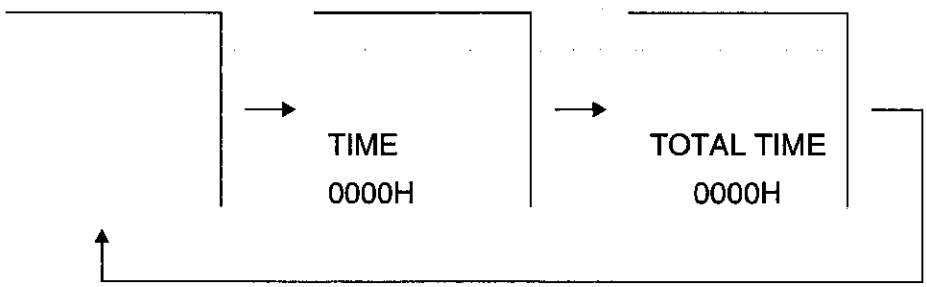
The following control is carried out when the lamp has been used for 1,900 hours and 2,000 hours.

1. **After 1900-hour use**
   When the power is turned on, "LAMP" appears in the on-screen display for about 1 minute (flashing in yellow) and the lamp LED indicator lights up in red.
   When the 1,900-hour point comes up during use of the unit, the "LAMP" display starts flashing in yellow on the screen for 1 minute at the very 1,900-hour point.
   Now the lamp LED indicator changes from green to red.

2. **After 2000-hour use**
   When the power is turned on, "LAMP" appears in the on-screen display for 5 minutes (flashing in red) and the lamp LED indicator lights up in red. Five minutes thereafter, the power turns itself off and the unit is interrupted.
   When the 2,000-hour point comes up during use of the unit, the "LAMP" display starts flashing in red on the screen for 5 minutes at the very 2,000-hour point. Five minutes later, the power turns itself off and the unit is interrupted. (The lamp LED indicator stays red since the 1,900-hour point.)
   If you try to turn on the power twice after the 2,000-hour point, the unit remains off.

3. **When the 2,000-hour point comes up, take the following steps.**
   Replace the lamp with new one. While holding down both the "VOLUME ▼" and "SELECT/ADJ ▼" Keys on the unit, turn on the main power switch (located on the back of the unit). The lamp operating hourmeter is now reset to zero. Turn on the unit and make sure the time display shows "0000H".

4. **Displaying the total operating hours of the lamp**
   Change the STATUS3 data settings: PICTURE at 0, BRIGHT at MAX, COLOR at MIN, TINT at MIN, and SHARPNESS at MAX. Hold down the SOUND DOWN and ENTER keys for longer than 2 seconds. By doing this, the total operating hours will be displayed on the screen.



ADJ. IN (adjustment input) FUNCTION

1. Keys used for the adjustments

On the sub PWB: S2001
Control keys: [ENTER], [MENU], [SELECT/ADJ.▲], [SELECT/ADJ.▼], [VOLUME+]

2. Operation

Press S2001 to call up the ADJ IN mode.
Use the [SELECT/ADJ. ▲] and [SELECT/ADJ.▼] keys to select an adjustment group, and press the [ENTER] key.
Use the [SELECT/ADJ. ▲] and [SELECT/ADJ.▼] keys again to select an adjustment subject, and press the [ENTER] key.
The [SELECT/ADJ. ▲] and [SELECT/ADJ.▼] keys are also used to make adjustments.
Each time the [ENTER] key is pressed on the ADJ IN screen, the adjustment subjects of a group are changed one by one. (Pressing the [VOLUME +] key changes the subjects in the reverse order.)
When the [MENU] key is pressed, the previous group appears on the screen.
Press S2001 again to go out of the ADJ IN mode.

	Group							
	VIDEO 1	VIDEO 2	VIDEO 3	VIDEO 4	SET	N • W	LINE	TEST
Adjustment subjects	H-CENT P-H-CENT CONT BRIGHT SUB-R SUB-G SUB-B	SUB-BIAS R-BIAS B-BIAS R-DRIVE B-DRIVE TINT COLOR P-COLOR S-COLOR	GAMMA1 GAMMA2 AGCADJ T-BRT	C-CONT C-BRIGHT C-COLOR C-TINT C-H-CENT C-PH-CENT	HL	RED GREEN BLUE N • W	AUTO OFF TIMER TEMP1 TEMP2 FACTORY SET4	TIME1 TIME2

The adjustment group "LINE" is not used here.
Do not feed the signal when the adjustment group "N • W" is used.

3. Adjustment subjects

VIDEO 1

H-CENT	NTSC horizontal position adjustment
P-H-CENT	PAL horizontal position adjustment
CONT	Sub-contrast adjustment
BRIGHT	Brightness adjustment
SUB-R	Not used, just to be 0 (zero)
SUB-G	Not used, just to be 0 (zero)
SUB-B	Not used, just to be 0 (zero)

VIDEO 2

SUB-BIAS	Sub-bias adjustment
R-BIAS	White balance (red), bias adjustment
B-BIAS	White balance (blue), bias adjustment
R-DRIVE	White balance (red), drive adjustment
B-DRIVE	White balance (blue), drive adjustment
TINT	TINT adjustment
COLOR	Colour level adjustment
P-COLOR	PAL colour level adjustment
S-COLOR	SECAM colour level adjustment

VIDEO 3

GAMMA1	Gamma correction 1
GAMMA2	Gamma correction 2
AGC ADJ	AGC adjustment
T-BRT	Chroma IC brightness adjustment

VIDEO 4

C-CONT	Component input contrast adjustment
C-BRIGHT	Component input brightness adjustment
C-COLOR	Component input colour level adjustment
C-TINT	Component input tint adjustment
C-H-CENT	Component input NTSC horizontal position adjustment
C-PH-CENT	Component input PAL horizontal position adjustment

SET

HL	Temperature detection level setting

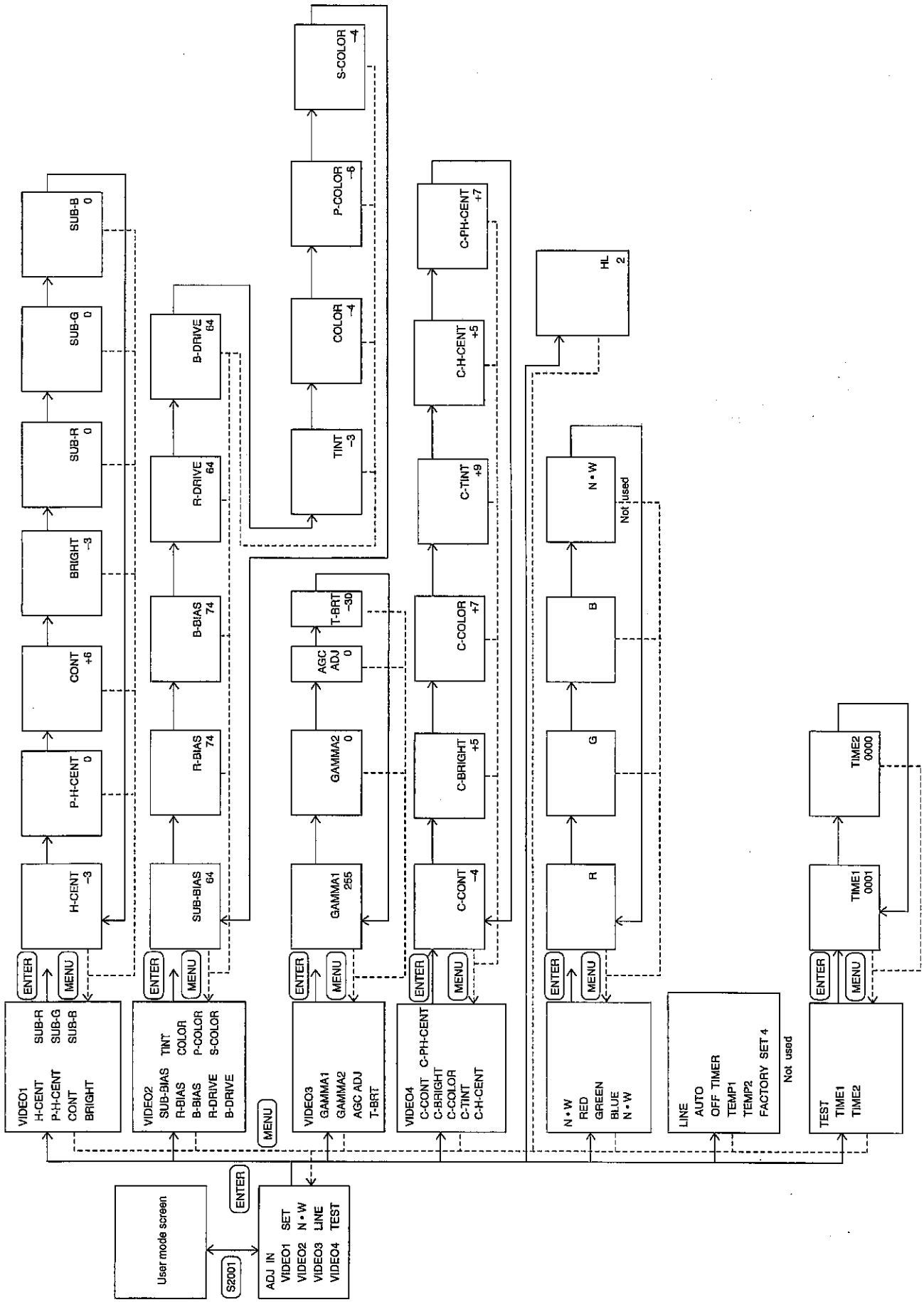
N • W (Single-colour display)

RED	Red
GREEN	Green
BLUE	Blue
N • W	Not used

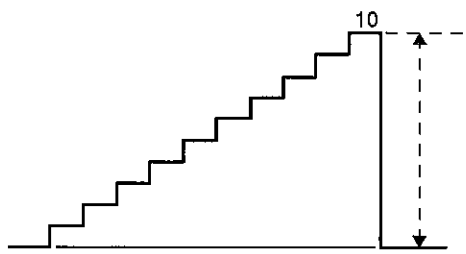
TEST

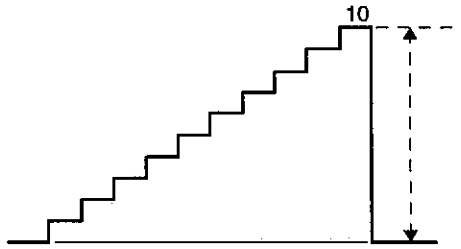
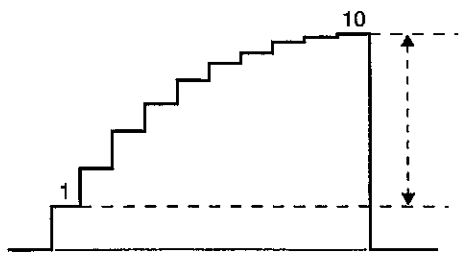
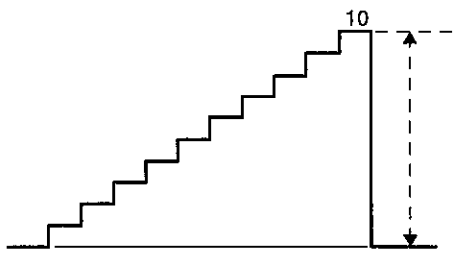
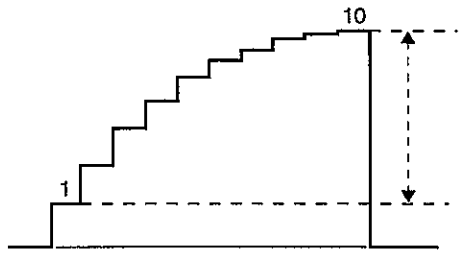
TIME1	1-hour increment setting for total lamp timer
TIME2	1899H-1999H-0H-1899H setting for total lamp timer

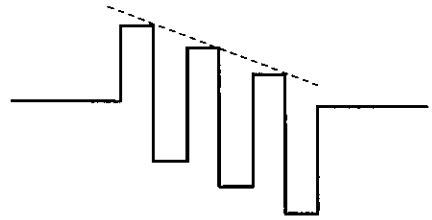
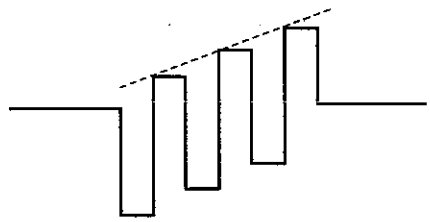
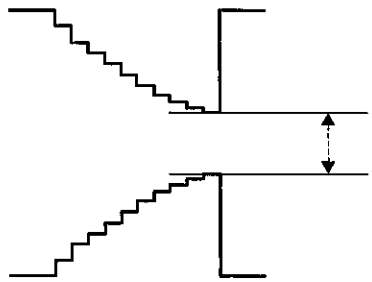
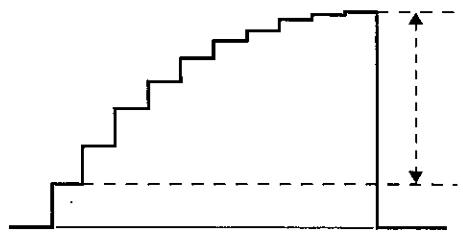
FLOWCHART OF ADJUSTMENT

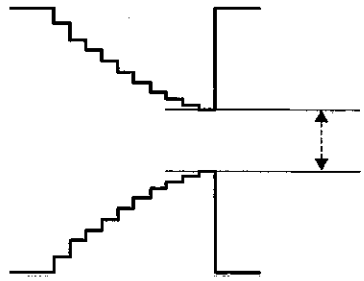
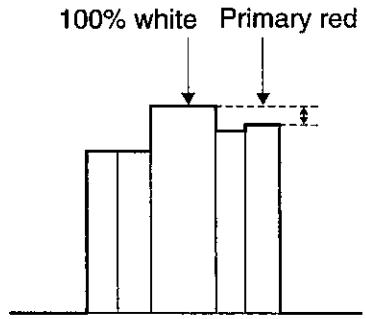
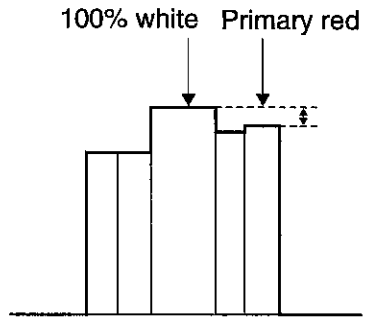


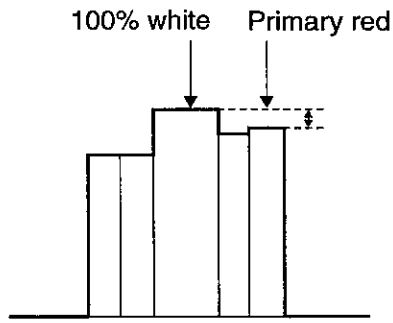
ELECTRICAL ADJUSTMENT

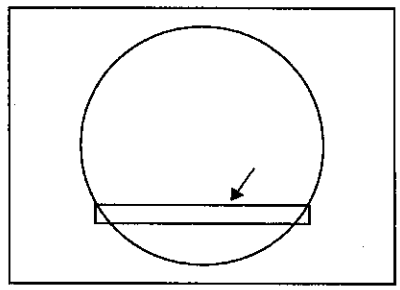
No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
1	**NTSC free-running frequency (R1616)**	1.Receive the NTSC monoscope pattern signal. 2.Hold down S801.	• Turn R1616 until the image appears as specified.
2	**PAL free-running frequency (R1602)**	1. Receive the PAL monoscope pattern signal. 2. Hold down S801.	• Turn R1602 until the image appears as specified.
3	**Horizontal center (NTSC) (DAC)**	1. Receive the NTSC monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: H-CENT	• Using the ▲ and ▼ keys, make the overscan just the same at right and left. Overscan: 91-97%
4	**Horizontal center (PAL) (DAC)**	1. Receive the PAL monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: P-H-CENT	• Using the ▲ and ▼ keys, make the overscan just the same at right and left. Overscan: 91-97%
5	**Contrast (DAC) (gamma correction off)**	1. Receive the NTSC 10-step pattern signal. 2. Connect a dual-beam oscilloscope between pin (2) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: SUB-BIAS 4. Using the ▲ and ▼ keys, put the waveform to its proper shape. 5. Press S2001 again to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: SUB-R, SUB-G, SUB-B Make sure all these subjects have an entry of 0 (zero). 6. Adjust R861 to get the highest gain. 7. Finally select the following subject. Group: VIDEO 1 Subject: CONT	• Using the ▲ and ▼ keys, adjust the difference between the tenth-step level and the pedestal level to 6.0±0.15 Vp-p. 

No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
6	**Automatic gain control: R861 (gamma correction off)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the dual-beam oscilloscope between pin (2) of P1401 and GND. 3. Select the following subject. Group: VIDEO 1 Subject: CONT	• Turn R861 so that the difference between the 100% white level and the pedestal level be 4.8±0.05 Vp-p. 
7	**Brightness (DAC) (gamma correction on)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the dual-beam oscilloscope between pin (2) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: BRIGHT	• Using the ▲ and ▼ keys, adjust the difference between the first-step level and the tenth-step level to 2.0±0.05 Vp-p. 
8	**Component contrast (DAC) (gamma correction off)**	1. Feed the NTSC 10-step pattern signal to the component terminal. 2. Connect the dual-beam oscilloscope between pin (2) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-CONT	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the pedestal level be 4.8±0.05 Vp-p. 
9	**Component brightness (DAC) (gamma correction on)**	1. Feed the NTSC 10-step pattern signal to the component terminal. 2. Connect the dual-beam oscilloscope between pin (2) of P1402 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-BRIGHT	• Using the ▲ and ▼ keys, adjust the difference between the first-step level and the tenth-step level to 2.0±0.05 Vp-p. 

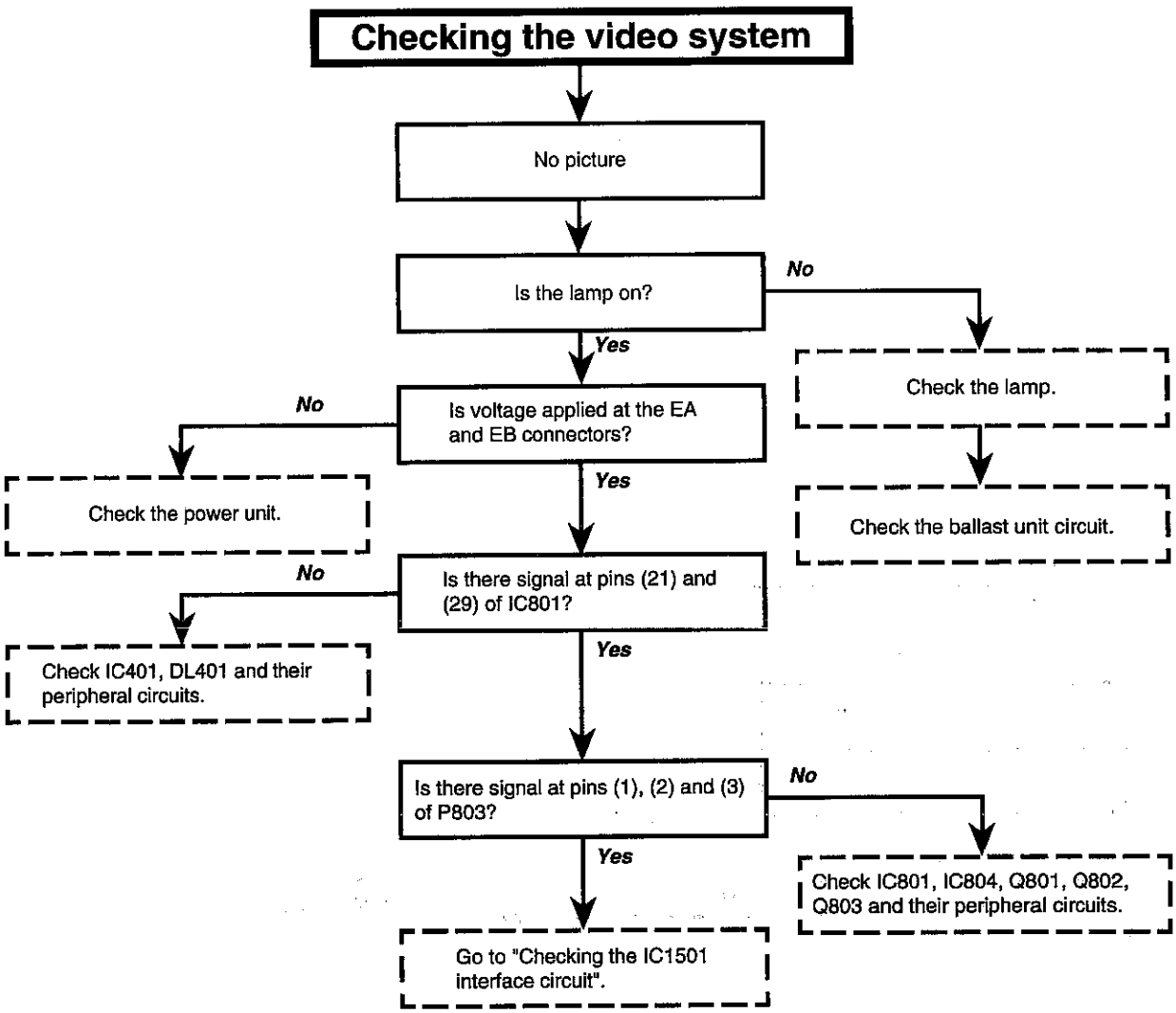
No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
10	**Tint (DAC)**	1. Receive the NTSC half-colour bar signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: TINT 3. Connect the dual-beam oscilloscope between pin (5) of P803 and GND.	• Using the ▲ and ▼ keys, adjust the (B-Y) signal waveform to slope down straight. 
11	**Component tint (DAC)**	1. Feed the NTSC half-colour bar signal to the component terminal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-TINT 3. Connect the dual-beam oscilloscope between pin (3) of P803 and GND.	• Using the ▲ and ▼ keys, adjust the (B-Y) signal waveform to slope down straight. 
12	**Sub-bias (DAC) (gamma correction on)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the dual-beam oscilloscope between pin (2) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: SUB-BIAS	• Using the ▲ and ▼ keys, adjust the difference between the white levels to 3.0±0.05 Vp-p. 
13	**R-drive** **B-drive**	1. Receive the NTSC 10-step pattern signal. 2. Connect the dual-beam oscilloscope between pin (3)(R) (or pin (1)(B)) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: R-DRIVE, B-DRIVE	• Using the ▲ and ▼ keys, adjust the difference between the first-step level and the tenth-step level to 2.0±0.05 Vp-p. 

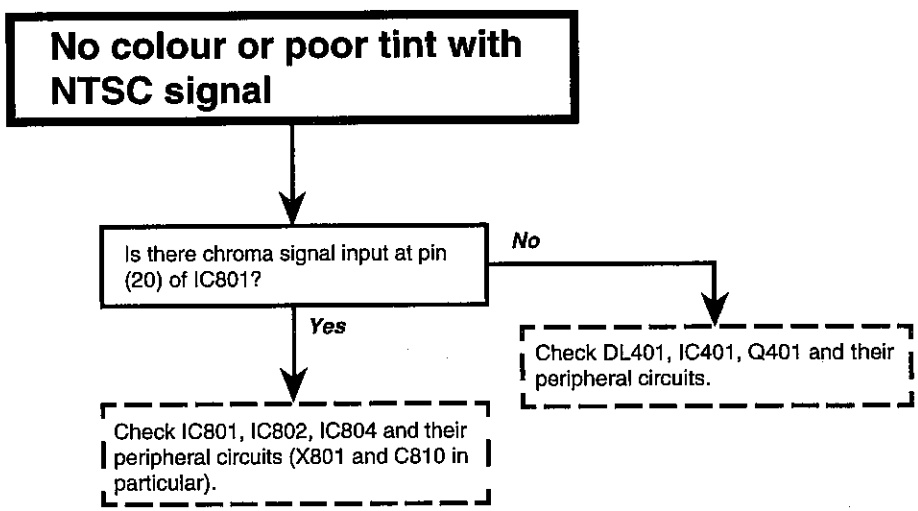
No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
14	**R-bias** **B-bias**	1. Receive the NTSC 10-step pattern signal. 2. Connect the dual-beam oscilloscope between pin (3)(R) (or pin (1)(B)) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: R-BIAS, B-BIAS	• Using the ▲ and ▼ keys, adjust the difference between the white levels to 3.0±0.05 Vp-p. 
15	**NTSC colour (DAC) (gamma correction on)**	1. Receive the NTSC half-colour bar signal. 2. Connect the dual-beam oscilloscope between pin (3) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: COLOR	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the primary red level to 0±0.05 Vp-p. 
16	**PAL colour (DAC) (gamma correction on)**	1. Receive the PAL half-colour bar signal. 2. Connect the dual-beam oscilloscope between pin (3) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: P-COLOR	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the primary red level to 0.10±0.05 Vp-p. 

No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
17	**SECAM colour (DAC) (gamma correction on)**	1. Receive the SECAM half-colour bar signal. 2. Connect the dual-beam oscilloscope between pin (3) of P1401 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: S-COLOR	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the red level to 0.10±0.05 Vp-p. 
18	**Component colour (DAC)**	1. Feed the NTSC half-colour bar signal to the component terminal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-COLOR	• Make sure that the setting is 12.
19	**Counter-bias (R1402)**	1. Receive the NTSC monoscope pattern signal.	• Turn R1402 until the best contrast is achieved.
20	**White balance (DAC)**	1. Receive the NTSC monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 2 Subject: R-BIAS, B-BIAS	• Using the ▲ and ▼ keys, visually adjust the white balance to best position.

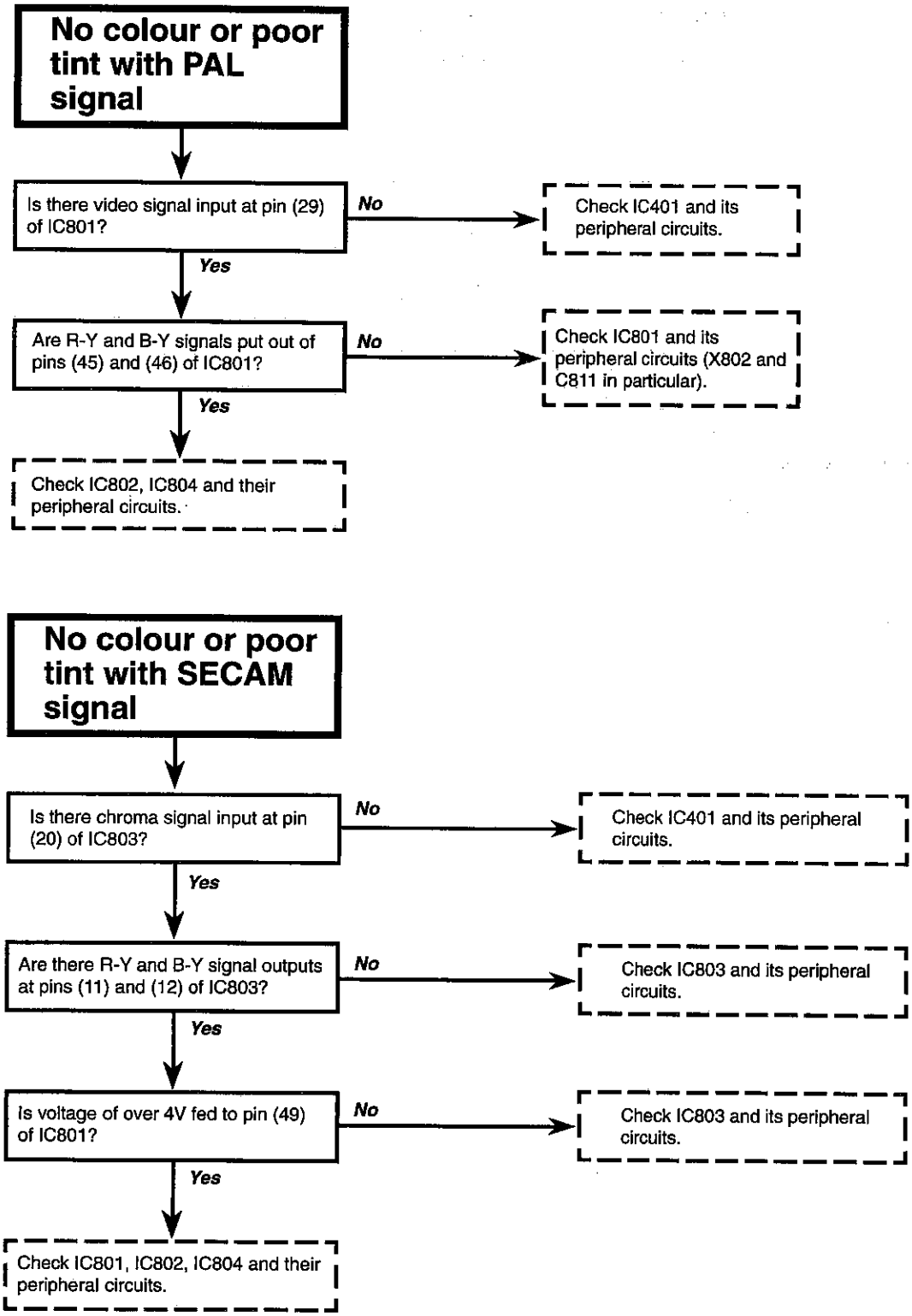
No.	Adjustment Item	Adjustment Conditions	Adjustment Procedure
21	**On-screen display position check (L2003)**	1. Receive the NTSC monoscope pattern signal. 2. Press the SOUND UP/DOWN keys to get the sound volume display bar on the screen.	• Turn L2003 so that the display bar be well centered on the screen. 
22	**Temperature sensor setting check**	1. Press S2001 to call up the ADJ IN mode and select the following group. Group: SET Subject: HL	• Make sure that the setting is 2.
23	**Component horizontal center (NTSC) (DAC)**	1. Receive the NTSC monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-H-CENT	• Using the ▲ and ▼ keys, make the overscan just the same at right and left. Overscan : 91-97%
24	**Component horizontal center (PAL) (DAC)**	1. Receive the PAL monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 4 Subject: C-PH-CENT	• Using the ▲ and ▼ keys, make the overscan just the same at right and left. Overscan : 91-97%

TROUBLE SHOOTING TABLE

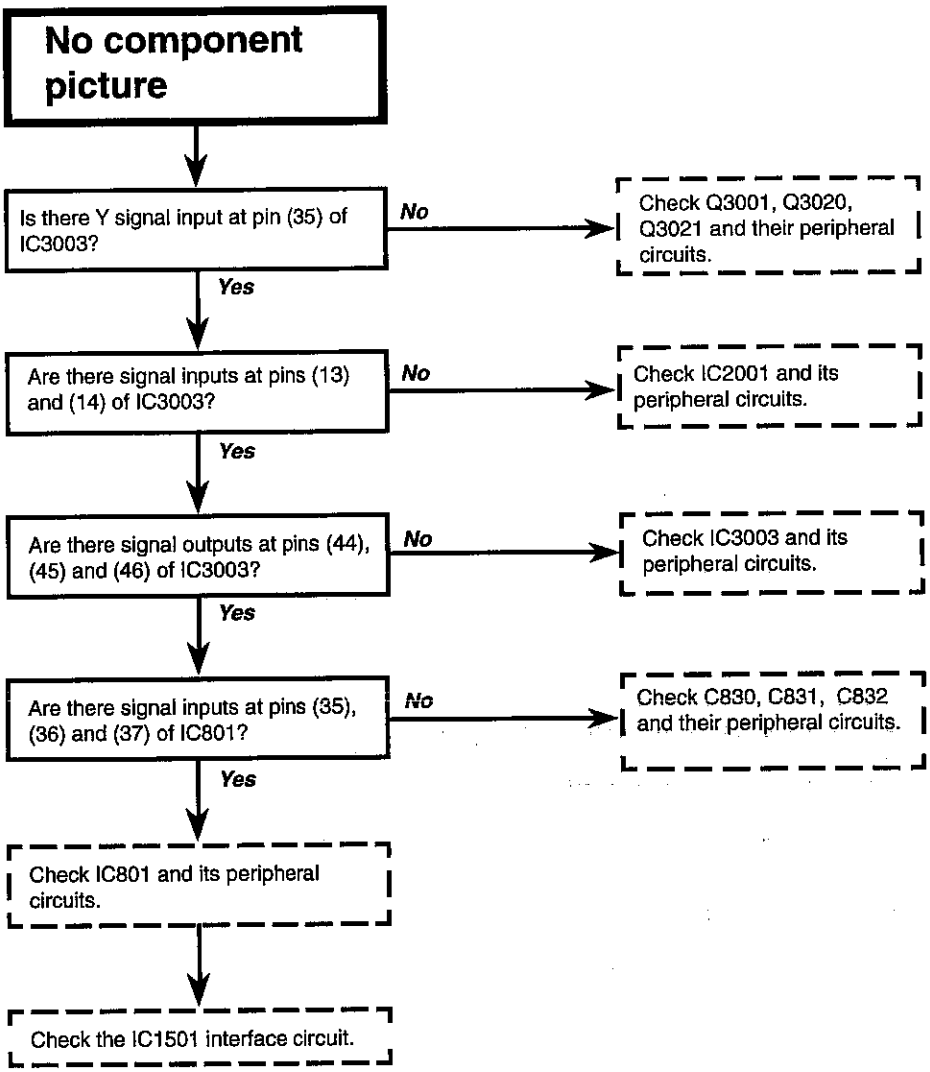

Checking the video system
No picture
Is the lamp on?
No
Yes
Check the lamp.
Check the ballast unit circuit.
Is voltage applied at the EA and EB connectors?
No
Yes
Check the power unit.
Is there signal at pins (21) and (29) of IC801?
No
Yes
Check IC401, DL401 and their peripheral circuits.
Is there signal at pins (1), (2) and (3) of P803?
No
Yes
Check IC801, IC804, Q801, Q802, Q803 and their peripheral circuits.
Go to "Checking the IC1501 interface circuit".

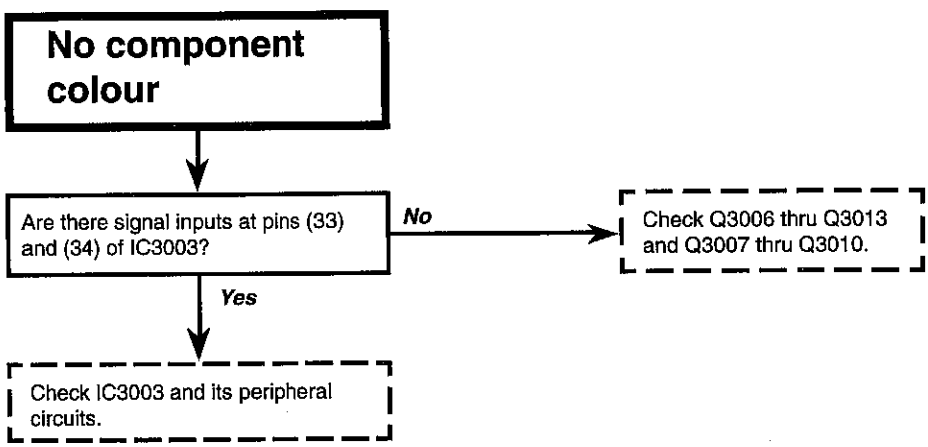

No colour or poor tint with NTSC signal
Is there chroma signal input at pin (20) of IC801?
No
Yes
Check DL401, IC401, Q401 and their peripheral circuits.
Check IC801, IC802, IC804 and their peripheral circuits (X801 and C810 in particular).

TROUBLE SHOOTING TABLE (Continued)

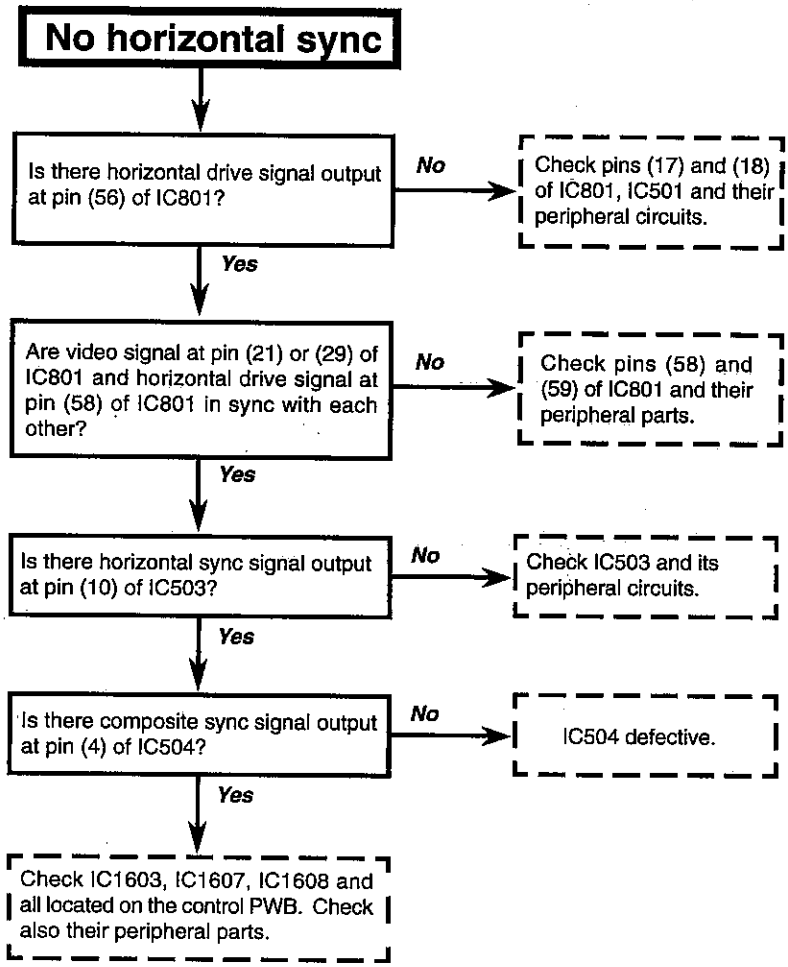

No colour or poor tint with PAL signal
Is there video signal input at pin (29) of IC801?
No
Check IC401 and its peripheral circuits.
Yes
Are R-Y and B-Y signals put out of pins (45) and (46) of IC801?
No
Check IC801 and its peripheral circuits (X802 and C811 in particular).
Yes
Check IC802, IC804 and their peripheral circuits.
No colour or poor tint with SECAM signal
Is there chroma signal input at pin (20) of IC803?
No
Check IC401 and its peripheral circuits.
Yes
Are there R-Y and B-Y signal outputs at pins (11) and (12) of IC803?
No
Check IC803 and its peripheral circuits.
Yes
Is voltage of over 4V fed to pin (49) of IC801?
No
Check IC803 and its peripheral circuits.
Yes
Check IC801, IC802, IC804 and their peripheral circuits.

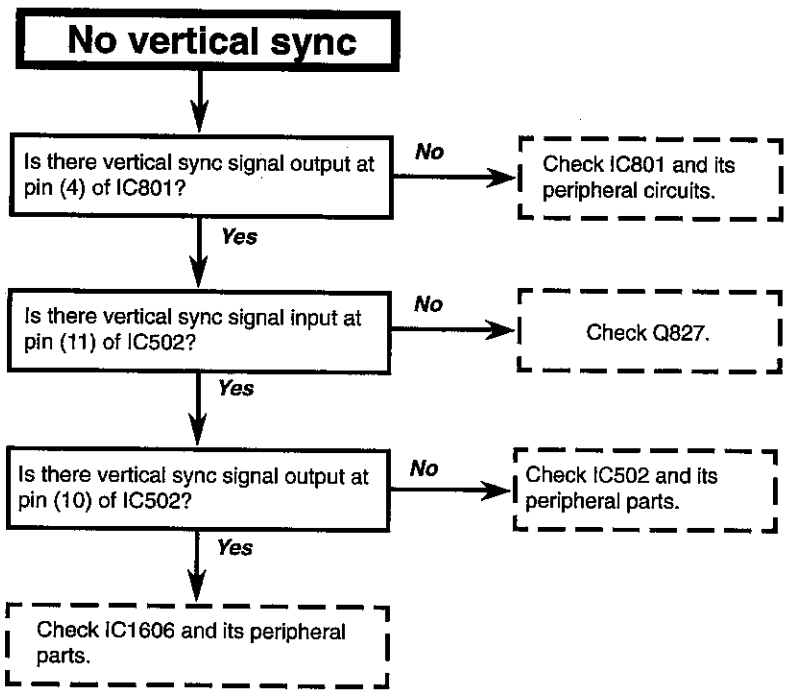
TROUBLE SHOOTING TABLE (Continued)


No component picture
Is there Y signal input at pin (35) of IC3003?
No
Check Q3001, Q3020, Q3021 and their peripheral circuits.
Yes
Are there signal inputs at pins (13) and (14) of IC3003?
No
Check IC2001 and its peripheral circuits.
Yes
Are there signal outputs at pins (44), (45) and (46) of IC3003?
No
Check IC3003 and its peripheral circuits.
Yes
Are there signal inputs at pins (35), (36) and (37) of IC801?
No
Check C830, C831, C832 and their peripheral circuits.
Yes
Check IC801 and its peripheral circuits.
Check the IC1501 interface circuit.

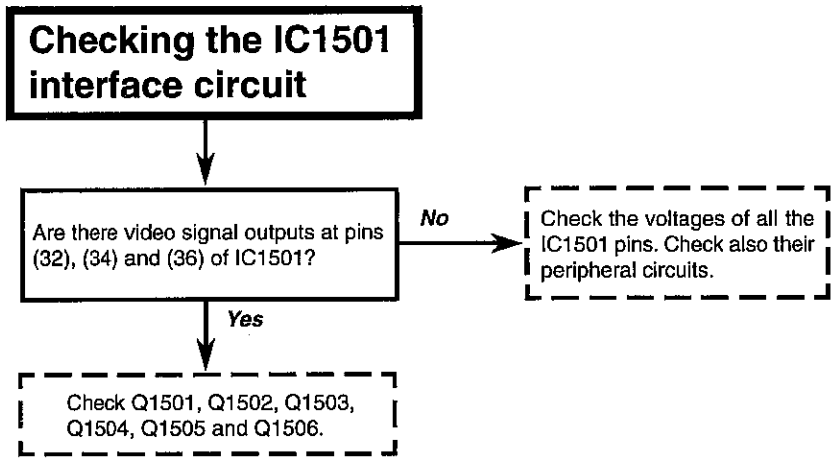

No component colour
Are there signal inputs at pins (33) and (34) of IC3003?
No
Check Q3006 thru Q3013 and Q3007 thru Q3010.
Yes
Check IC3003 and its peripheral circuits.

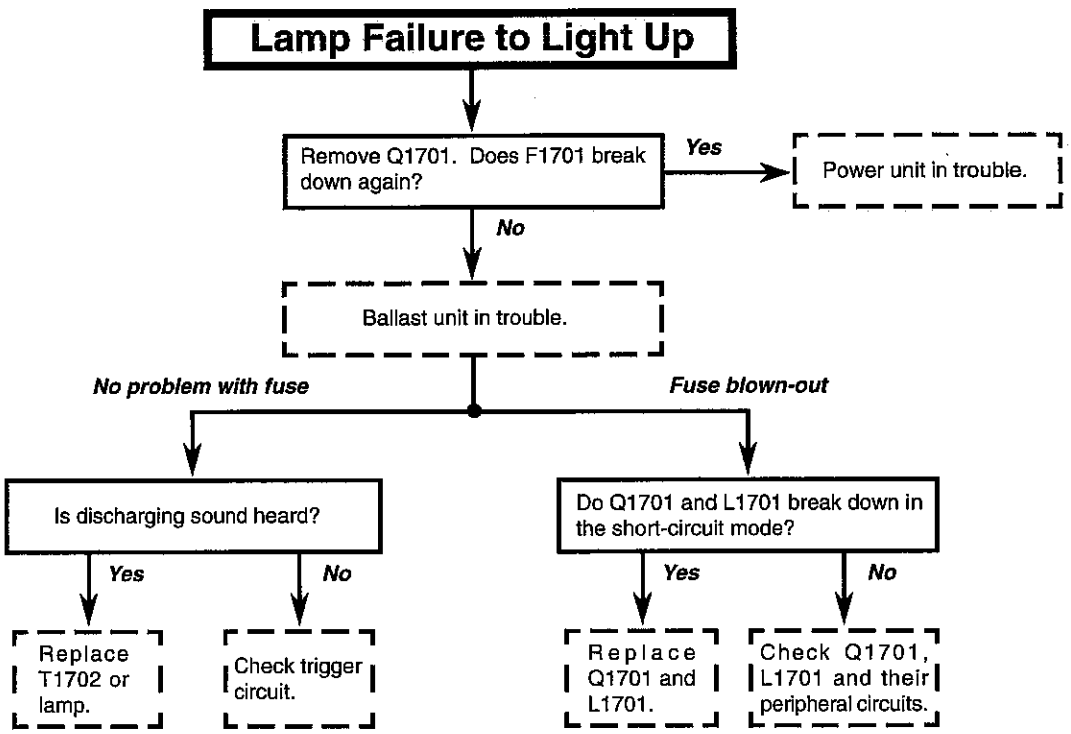
TROUBLE SHOOTING TABLE (Continued)


No horizontal sync
Is there horizontal drive signal output at pin (56) of IC801?
No
Check pins (17) and (18) of IC801, IC501 and their peripheral circuits.
Yes
Are video signal at pin (21) or (29) of IC801 and horizontal drive signal at pin (58) of IC801 in sync with each other?
No
Check pins (58) and (59) of IC801 and their peripheral parts.
Yes
Is there horizontal sync signal output at pin (10) of IC503?
No
Check IC503 and its peripheral circuits.
Yes
Is there composite sync signal output at pin (4) of IC504?
No
IC504 defective.
Yes
Check IC1603, IC1607, IC1608 and all located on the control PWB. Check also their peripheral parts.


No vertical sync
Is there vertical sync signal output at pin (4) of IC801?
No
Check IC801 and its peripheral circuits.
Yes
Is there vertical sync signal input at pin (11) of IC502?
No
Check Q827.
Yes
Is there vertical sync signal output at pin (10) of IC502?
No
Check IC502 and its peripheral parts.
Yes
Check IC1606 and its peripheral parts.

TROUBLE SHOOTING TABLE (Continued)


Checking the IC1501 interface circuit
Are there video signal outputs at pins (32), (34) and (36) of IC1501?
No
Check the voltages of all the IC1501 pins. Check also their peripheral circuits.
Yes
Check Q1501, Q1502, Q1503, Q1504, Q1505 and Q1506.



Technische Daten

Produkttyp		LCD-Projektor
Model		XV-C100A/M/E
Videosystem		PAL-/SECAM-/NTSC 3.58-/NTSC 4.43-System
Wiedergabeverfahren		1 LCD-Projektionspanel, dreifarbiges optisches Verschlußverfahren (RGB)
LCD-Projektions-panel	Panelgröße	1,32 Zoll (20,0 (H) × 26,8 mm (B))
	Wiedergabeverfahren	Durchlässige TN-Flüssigkristall-Panele
	Treiberverfahren	TFT (Dünnfilmtransistor) Aktivmatrix-Treiberverfahren
	Anzahl der Bildpunkte	181.470 Bildpunkte (230 (V) × 789 (H))
Objektiv		F2, f = 56,5 mm
Projektionslampe		155 W Metallhalogen-Entladungslampe
Kontrastverhältnis		100:1
Videoeingangssignal		RCA-Anschluß: VIDEO, Composite Video, 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 470 mVrms, mehr als 22 kΩ (Stereo)
S-Videoeingangssignal		4-pol. Mini-DIN-Steckanschluß Y (Luminanz-Signal): 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert C (Chrominanz-Signal): Farbsynchronimpuls 0,286 Vs-s, 75 Ω terminiert
Komponenten-Videoeingangssignal		RCA-Anschluß: Y (Luminanz-Signal): 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert CB (B-Y) (Chrominanz-Signal): 0,7 Vs-s, negatives Sync.-Signal, 75 Ω terminiert CR (R-Y) (Chrominanz-Signal): 0,7 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 470 mVrms, mehr als 22 kΩ (Stereo)
Horizontale Auflösung		360 Fernsehzeilen (Videoeingang)
Audioausgang		1 W (monaural)
Lautsprecher		6,5 cm, rund
Nennspannung		220–240 V Wechselstrom
Eingangsspannung		1,3 A
Nennfrequenz		50/60 Hz
Nennaufnahme		200 W
Standby-Stromverbrauch		4 W
Betriebstemperatur		+5°C bis +40°C
Lagertemperatur		−20°C bis +60°C
Gehäuse		Kunststoff
Abmessungen (B × T × H)		310 × 317 × 125 mm (nur Hauptgerät) 310 × 319 × 136 mm (einschließlich Drehüße und vorstehende Teile)
Gewicht		3,8 kg (XV-C100A/M) 4,4 kg (XV-C100E)
Mitgeliefertes Zubehör		Fernbedienung, zwei AAA-Batterien, Objektivkappe (installiert), Luftfilter (installiert), 21-Stifte-RCA-Umkehradapter (Nur Europa)
Sonderzubehör		Fernbedienung (RRMCG1540PESA), Luftfilter (PFILD0002PEZZ), 21-Stifte-RCA-Umkehradapter (Nur Europa) (QSOCZ0305CEZZ)

Dieser Projektor ist mit einem LCD (Flüssigkristallanzeige)-Projektionspanel ausgestattet. Diese neuartige Projektionspanele enthält TFT's (Dünnfilm-Transistoren) mit insgesamt 181.470 Bildpunkten (RGB-Trio 60.490 Bildpunkte). Bei allen technologisch fortschrittlichen elektronischen Geräten, z.B. Großbild-Fernsehern, Videosystemen oder Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben. Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgerenzen liegende TFTs, die als beleuchtete oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluß auf die Bildqualität und die Lebenserwartung des Gerätes.

**Änderungen der technischen Daten vorbehalten.*

HINWEIS FÜR DAS WARTUNGSPERSONAL

ACHTUNG: UV-STRAHLUNG

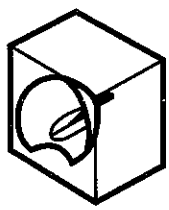
Die Lichtquelle im LCD-Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.

DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

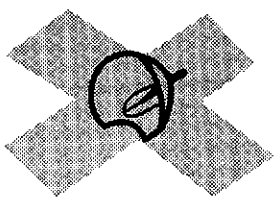
Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



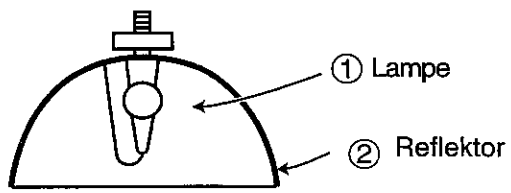
Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Die Lampe darf nur gegen eine der gleichen Art ausgewechselt werden. Typ CLMPF0053DE03, bemessen für 65V/155W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

■ Auswechseln der Lampe

Hinweis:

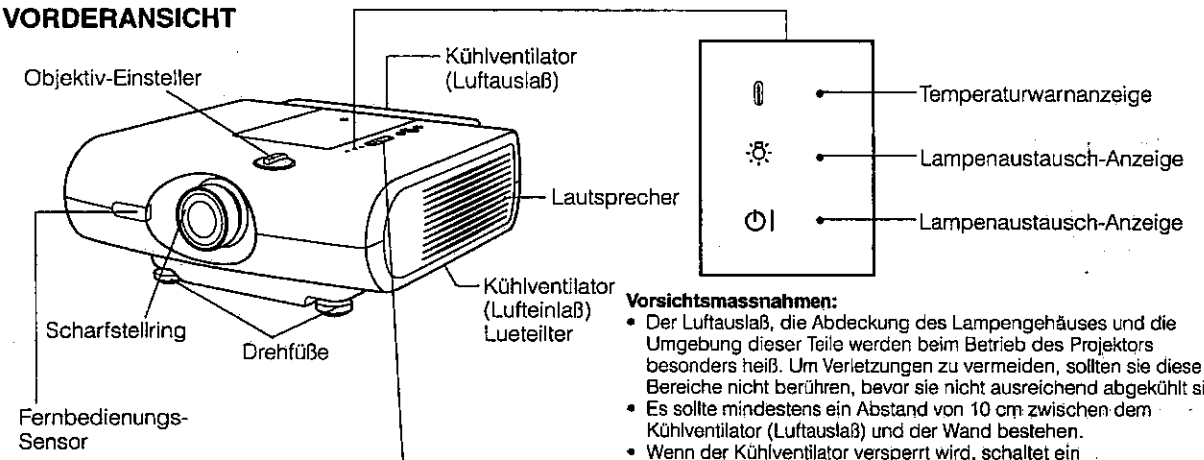
Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Lage der Bedienelemente

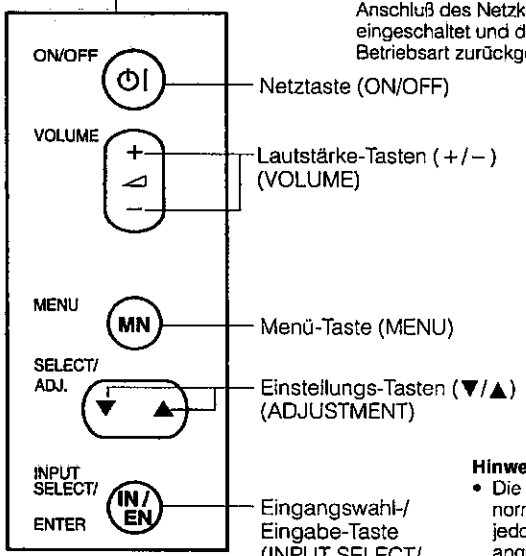
VORDERANSICHT



Vorsichtsmassnahmen:

- Der Luftauslaß, die Abdeckung des Lampengehäuses und die Umgebung dieser Teile werden beim Betrieb des Projektors besonders heiß. Um Verletzungen zu vermeiden, sollten sie diese Bereiche nicht berühren, bevor sie nicht ausreichend abgekühlt sind.
- Es sollte mindestens ein Abstand von 10 cm zwischen dem Kühlventilator (Luftauslaß) und der Wand bestehen.
- Wenn der Kühlventilator versperrt wird, schaltet ein Schutzmechanismus automatisch die Projektorlampe aus. Dies zeigt keine Fehlfunktion an. Den Netzstecker des Projektors von der Steckdose abtrennen und 10 Minuten lang warten. Durch den Anschluß des Netzkabels an die Steckdose wird das Gerät wieder eingeschaltet und der Projektor ist wieder auf die normale Betriebsart zurückgestellt.

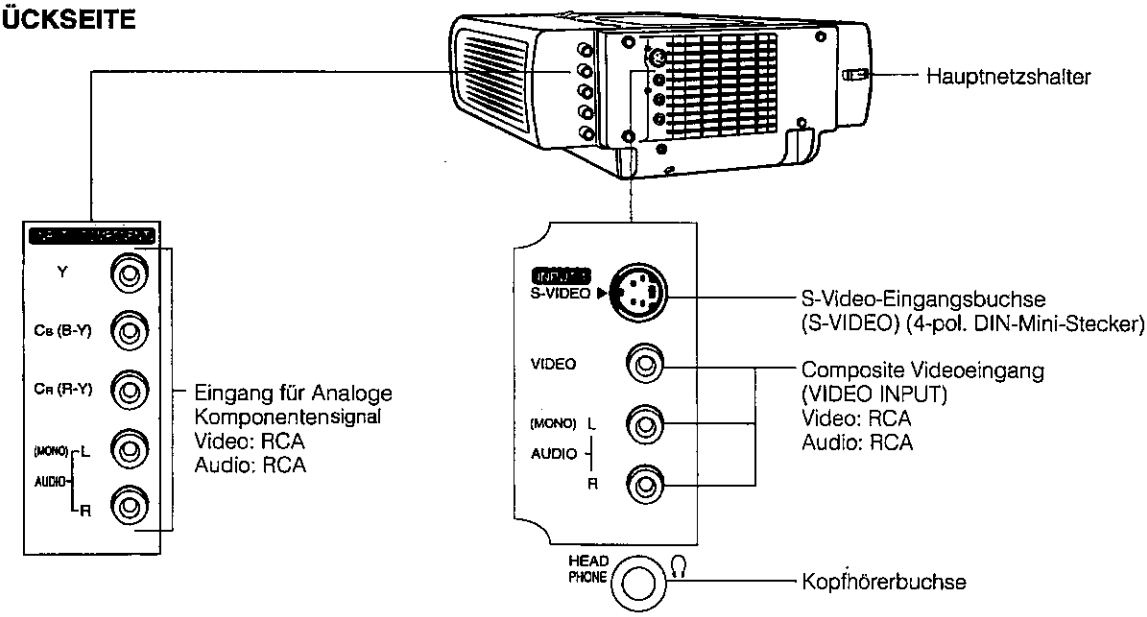
BEDIENFELD AUF DER OBERSEITE DES PROJEKTORS



Hinweis:

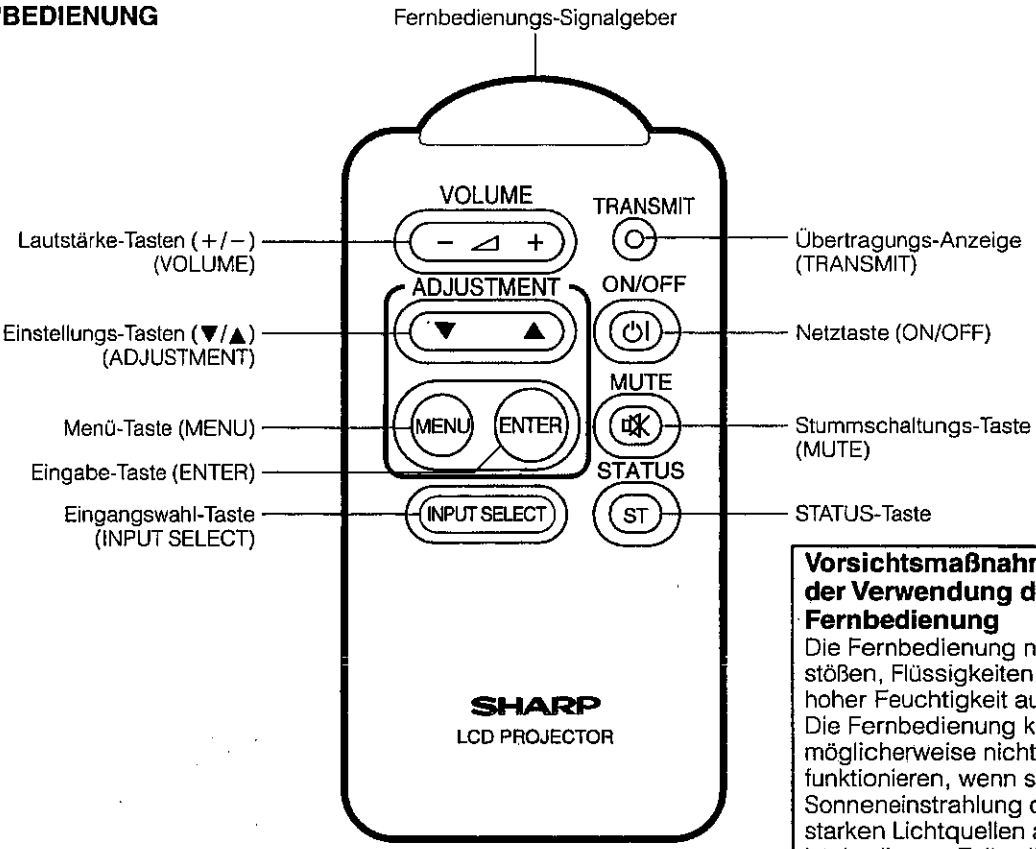
- Die INPUT SELECT/ENTER-Taste funktioniert normalerweise als INPUT SELECT-Taste. Wenn jedoch auf der Bildwand „ENTER" zur Einstellung angezeigt wird, funktioniert die Taste als Eingabe-Taste (ENTER).

RÜCKSEITE



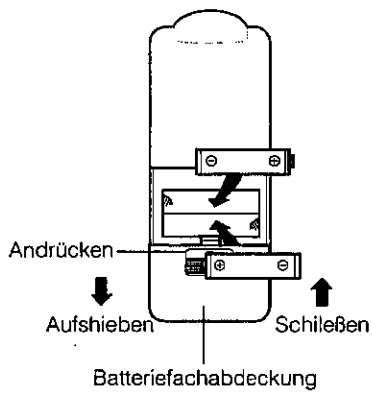
Fernbedienter Betrieb

FERNBEDIENUNG



Vorsichtsmaßnahmen bei der Verwendung der Fernbedienung

Die Fernbedienung nicht stößen, Flüssigkeiten oder hoher Feuchtigkeit aussetzen. Die Fernbedienung kann möglicherweise nicht richtig funktionieren, wenn sie direkter Sonneneinstrahlung oder starken Lichtquellen ausgesetzt ist. In diesem Fall sollte die Lichtquelle oder der LCD-Projektor verschoben werden.



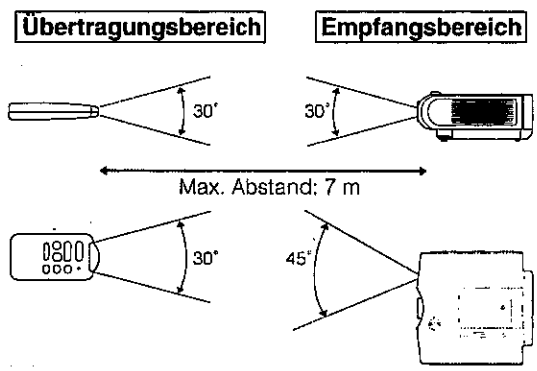
Einsetzen der Batterien

Die Batteriefachabdeckung wie gezeigt entfernen, zwei Batterien (Größe AAA) einsetzen und sicherstellen, daß die Polarität den Markierungen (+) und (−) im Batteriefach entspricht.

Hinweise:

Eine falsche Verwendung kann die Batterien zum Auslaufen oder Explodieren bringen.

- Die Batterien unter Beachtung der (+) und (−) Pole wie gezeigt richtig einsetzen.
- Die Batterien aus der Fernbedienung entnehmen, wenn sie für längere Zeit nicht verwendet wird.
- Die Batterien immer sauber halten.
- Unterschiedliche Batteriearten nicht zusammen verwenden. Die Lebensdauer der neuen Batterien wird dadurch verkürzt und die alten Batterien können auslaufen.
- Verbrauchte Batterien sollten sofort entnommen werden, um Auslaufen und Beschädigungen zu vermeiden. Ausgelaufene Batterieflüsslgkeit kann zu Hautirritationen führen. Ausgelaufene Batterieflüssigkeit mit einem Tuch entfernen.
- Wegen unterschiedlicher Lagerbedingungen können die mitgelieferten Batterien früher als angegeben verbraucht sein. Verbrauchte Batterien sollten so schnell wie möglich durch neue ausgetauscht werden.



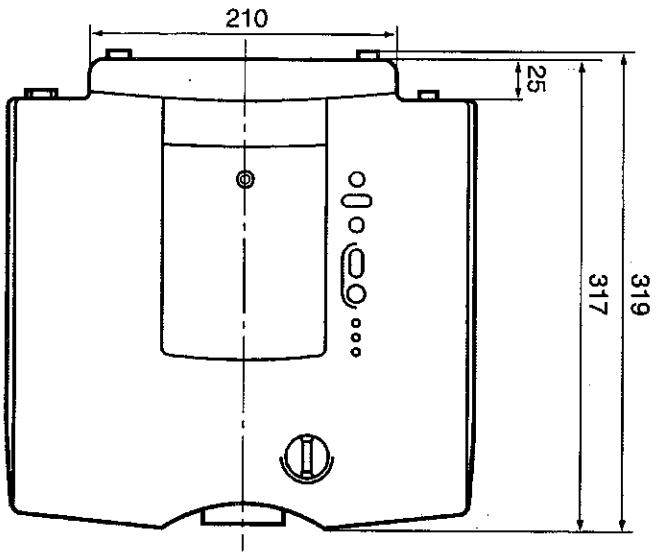
Verwendung der Fernbedienung

Die Fernbedienung wie gezeigt verwenden.

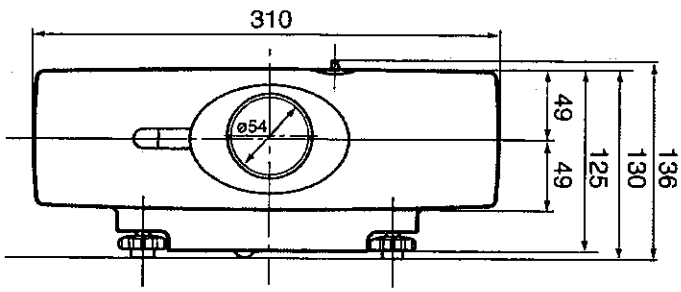
Hinweis:

- Das Signal von der Fernbedienung kann für einen einfachen Betrieb von der Bildwand reflektiert werden. Jedock kann der wirksame Abstand des Signals aufgrund des Bildwandmaterials Unterschiede aufweisen.

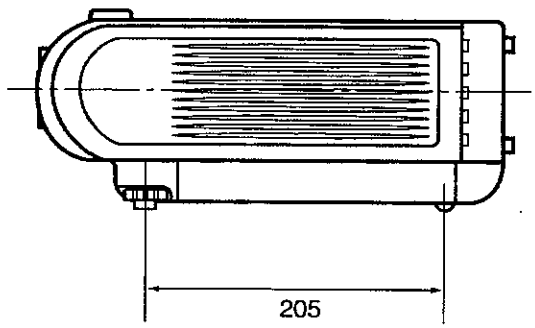
Abmessungen



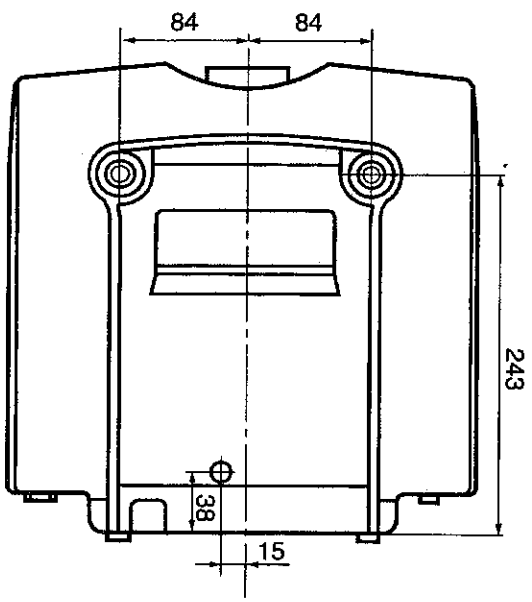
Ansicht von oben



Ansicht von vorne



Seitenansicht



Ansicht von unten

[Einheit: mm]

ENTFERNEN DER HAUPTKOMPONENTEN

1. Entfernen der Gehäuse

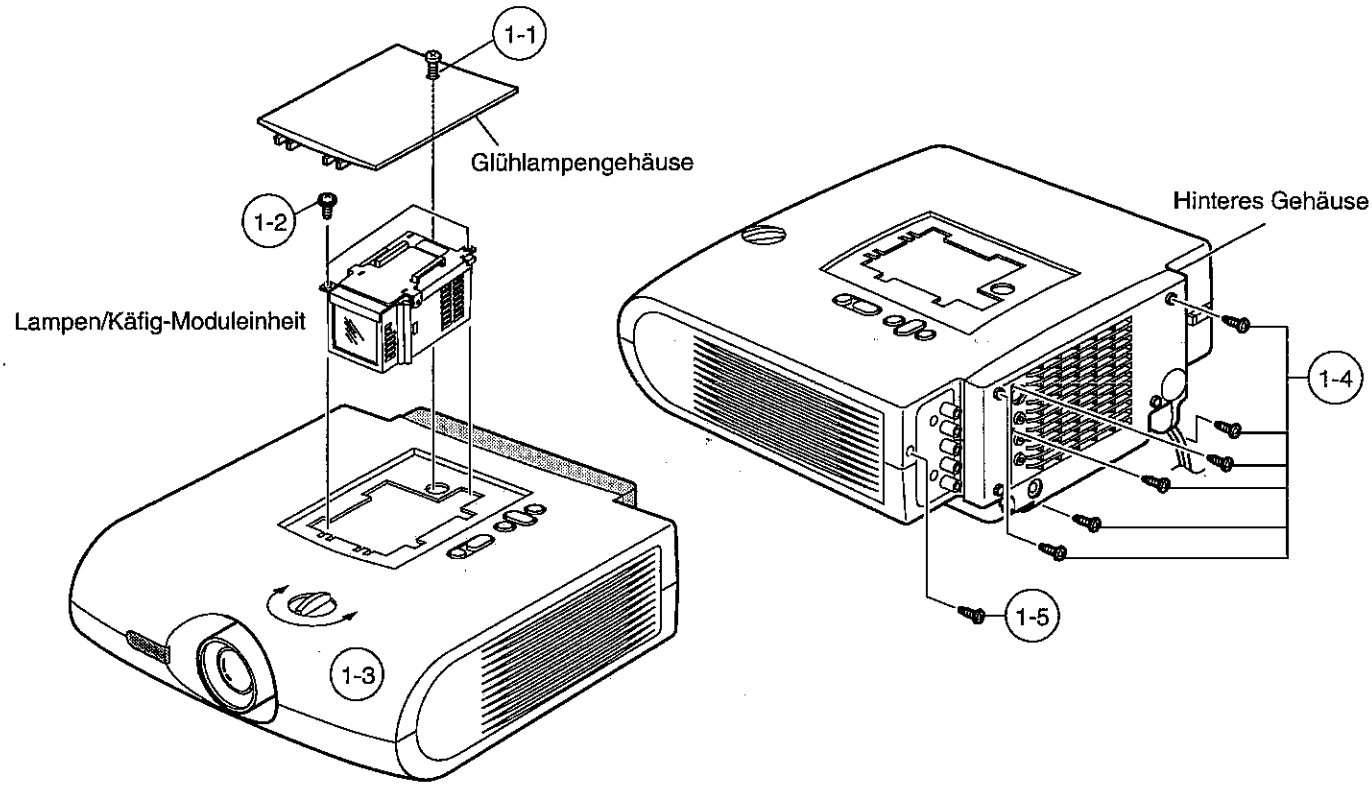
1-1. Die Schraube herausdrehen, dann die Abdeckung des Glühlampengehäuses abnehmen.

1-2. Die beiden Sicherungsschrauben (zwei 4-mm-Schrauben) aus dem Glühlampen-/Gehäusemodul herausdrehen.

1-3. Den Objektiv-Schaltregler soweit verstellen, bis das Objektiv fast bis an die Mitte der Objektivöffnung im vorderen Gehäuse heranreicht.

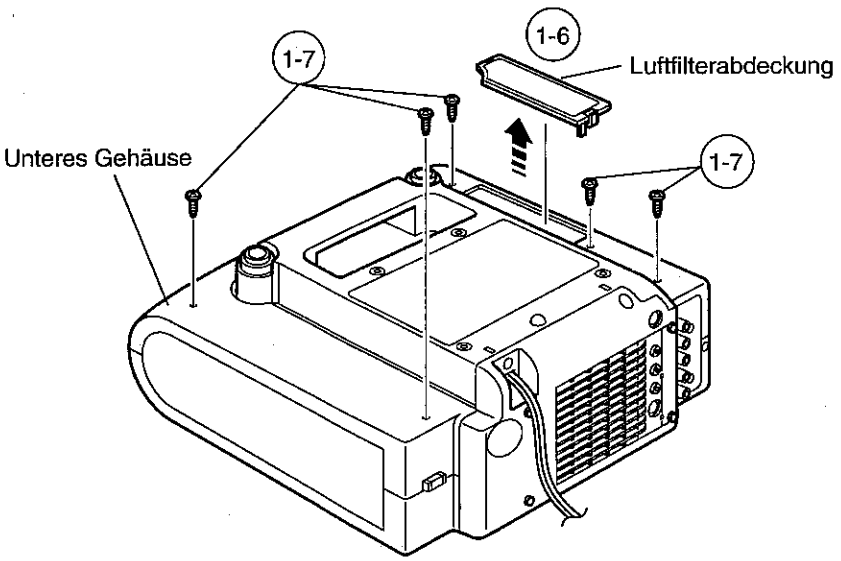
1-4. Die sechs Schrauben (sechs 3 mm Gewindeschneidschrauben) vom hinteren Gehäuse entfernen.

1-5. Die M3-Blechschraube aus der Zusatzeinheit-Abdeckung herausdrehen.



1-6. Die Abdeckung des Luftfilters entfernen.

1-7. Die fünf Schneidschrauben von der Bodenplatte losdrehen.



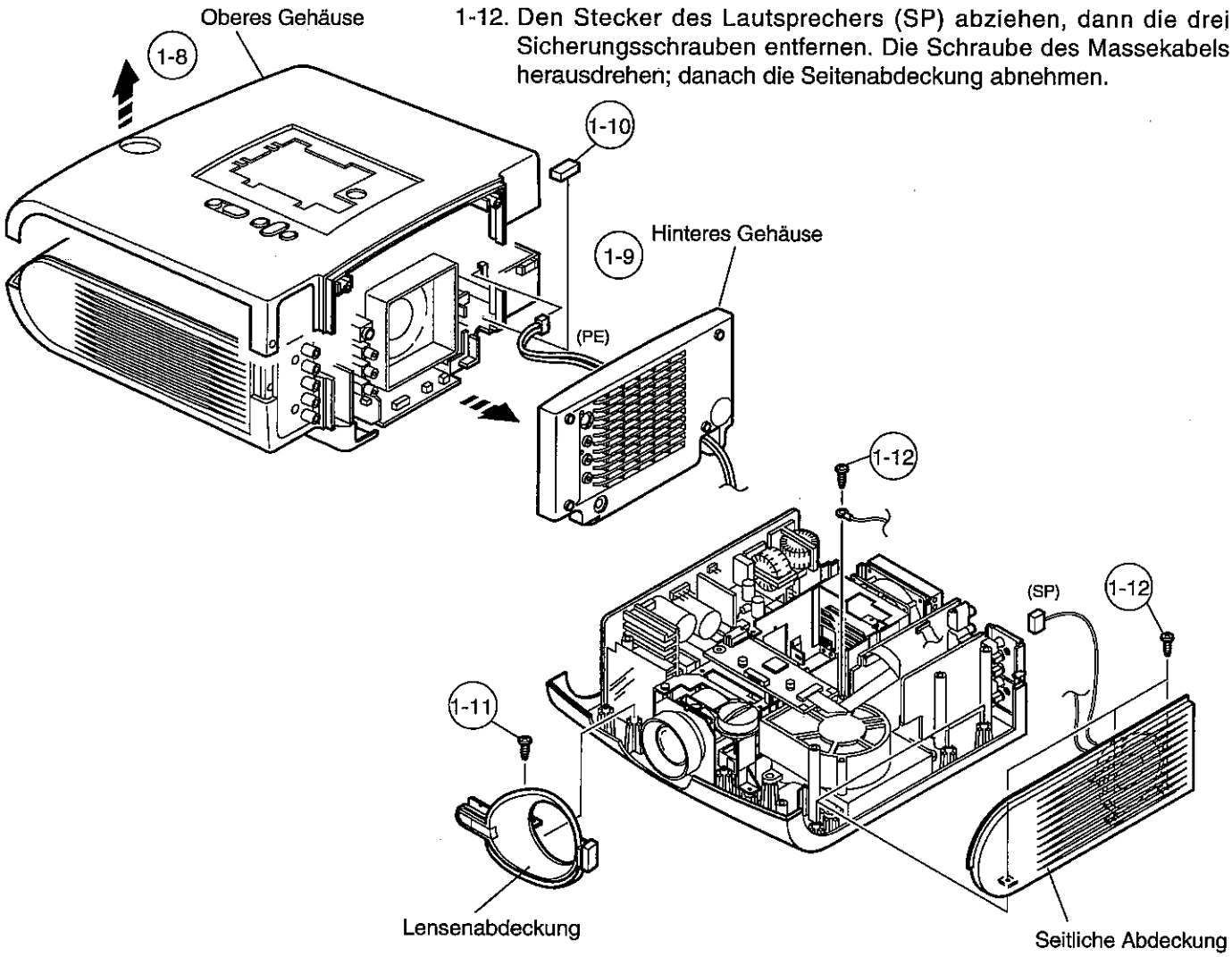
1-8. Nun das obere Gehäuse weiter anheben und die Blattschalter-Steckverbinder (LL) sowie den Flachkable-Steckverbinder (KE) der Betriebseinheit abtrennen. Damit ist das obere Gehäuse frei.

1-9. Den Steckverbinder (PE) des Wechselstromkabels (das durch das hintere Gehäuse vom Vorschaltelement verläuft) abtrennen. Das hintere Gehäuse abnehmen.

1-10. Das Abstandsstück entfernen.

1-11. Die Schrauben von dem Lensenabdeckung losdrehen.

1-12. Den Stecker des Lautsprechers (SP) abziehen, dann die drei Sicherungsschrauben entfernen. Die Schraube des Massekabels herausdrehen; danach die Seitenabdeckung abnehmen.



Einbauverfahren

1. Die Lensenabdeckung und die Seitenabdeckung auf die Bodenplatte einpassen. Die erforderliche Schrauben festziehen.
2. Das obere Gehäuse auf dem unteren Gehäuse aufsetzen.
3. Die M3-Blechschraube an der Zusatzeinheit-Abdeckung wieder festziehen.
4. Danach das hintere Gehäuse gegen das obere und untere Gehäuse drücken, um diese anzupassen.
5. Die Schrauben am hinteren Gehäuse festziehen. Die vier 3-mm-Blechschräuben und eine M2.5-Maschinenschraube benutzen. Niemals Blechschrauben in das M2.5-Schraubenloch eindrehen. Die Schraubenwindungen Können dadurch zerstört werden.
6. Die Blechschrauben für die Befestigung des oberen und unteren Gehäuses festziehen.
7. Das Glühlampen-/Gehäusemodul einsetzen; danach die beiden 4-mm-Schrauben festziehen.
8. Die Abdeckung des Glühlampengehäuses anbringen und die Schrauben festziehen.

2. Entfernen der gedruckten Leiterplatten-

2-1. Die Netzeinheit, die Ballasteinheit, die Haupteinheit und die in Richtung der entsprechenden Pfeile herausziehen. Die Steckverbinder abtrennen.

2-2. Die drei Schrauben herausdrehen, die beiden Klebebänder abziehen, dann die Bedienungstasten-Einheit herausnehmen.

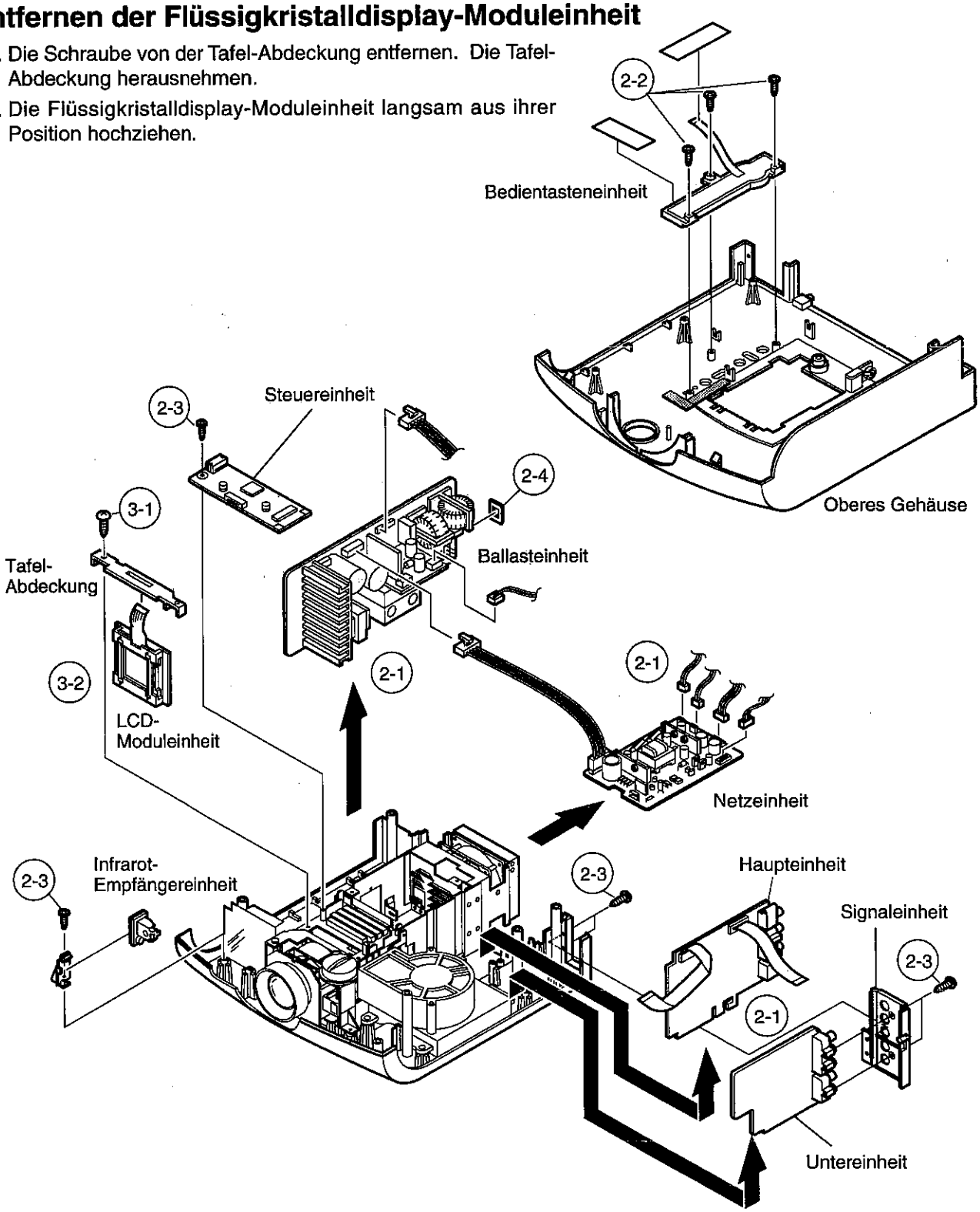
2-3. Die Schrauben von der Ausgangseinheit, Bedienungstasteneinheit sowie Fernbedienungseinheit losdrehen. Die Steckverbinder trennen.

2-4. Die Tastenabdeckung entfernen.

3. Entfernen der Flüssigkristalldisplay-Moduleinheit

3-1. Die Schraube von der Tafel-Abdeckung entfernen. Die Tafel-Abdeckung herausnehmen.

3-2. Die Flüssigkristalldisplay-Moduleinheit langsam aus ihrer Position hochziehen.



4. Entfernen der Optikmechanismus-Baugruppe

4-1. Die fünf Schrauben von der Optikmechanismus-Baugruppe entfernen. Die Baugruppe vom unteren Gehäuse abnehmen.

4-2. Die vier Schrauben an der Lufteinlaßführung herausdrehen. Die Lufteinlaßführung vom unteren Gehäuse abnehmen.

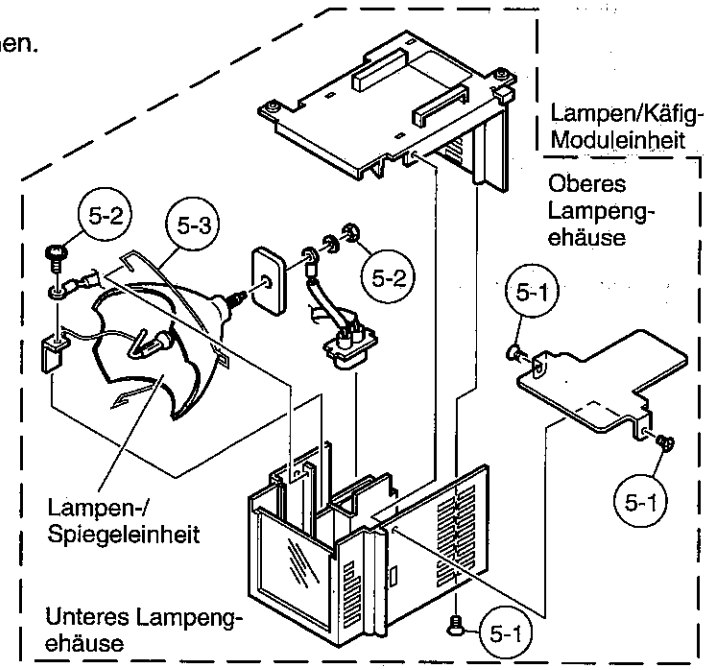
4-3. Die beiden Schrauben vom Kühlgebläse entfernen.

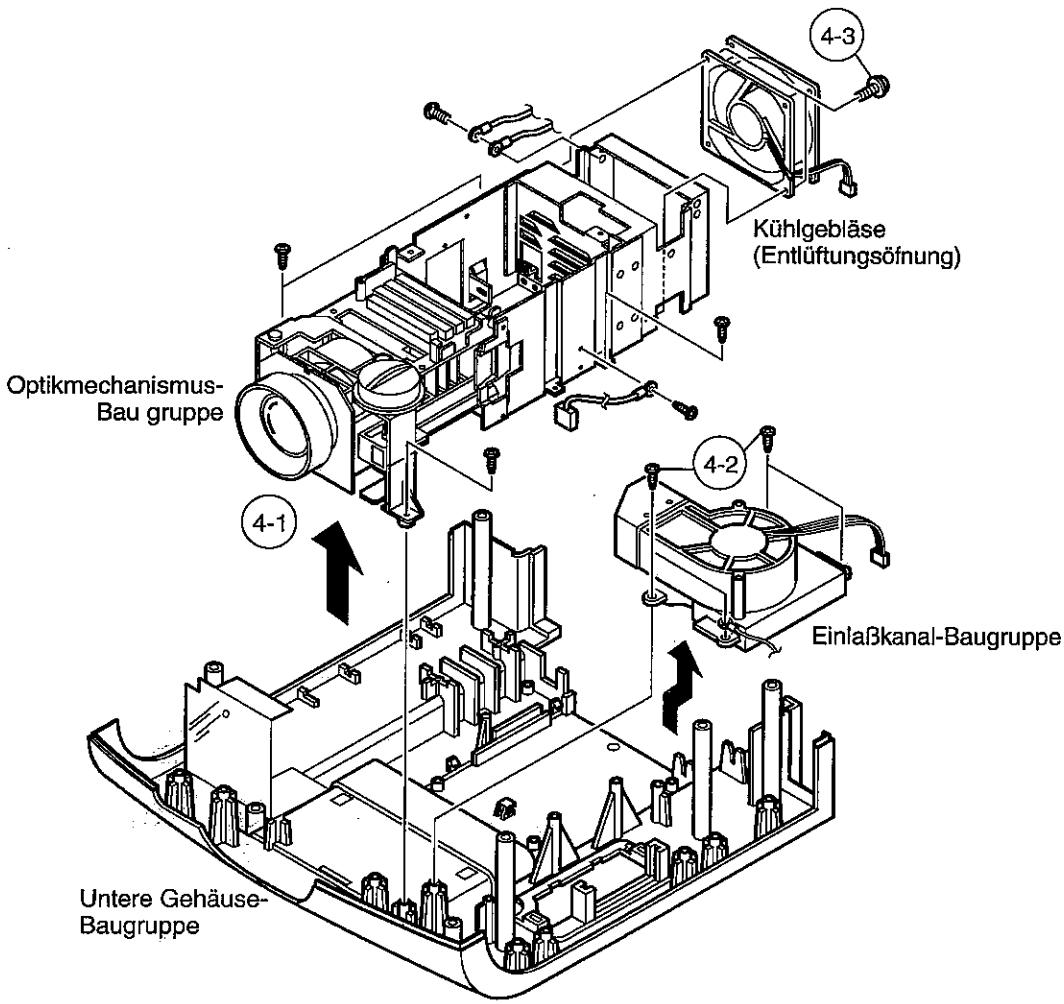
5. Ausbau der Lampe

5-1. Die drei Versenkschrauben von den oberen und unteren Lampengehäusen losdrehen.

5-2. Die Arretierschraube und die Mutter vom Lampenanschluß losdrehen.

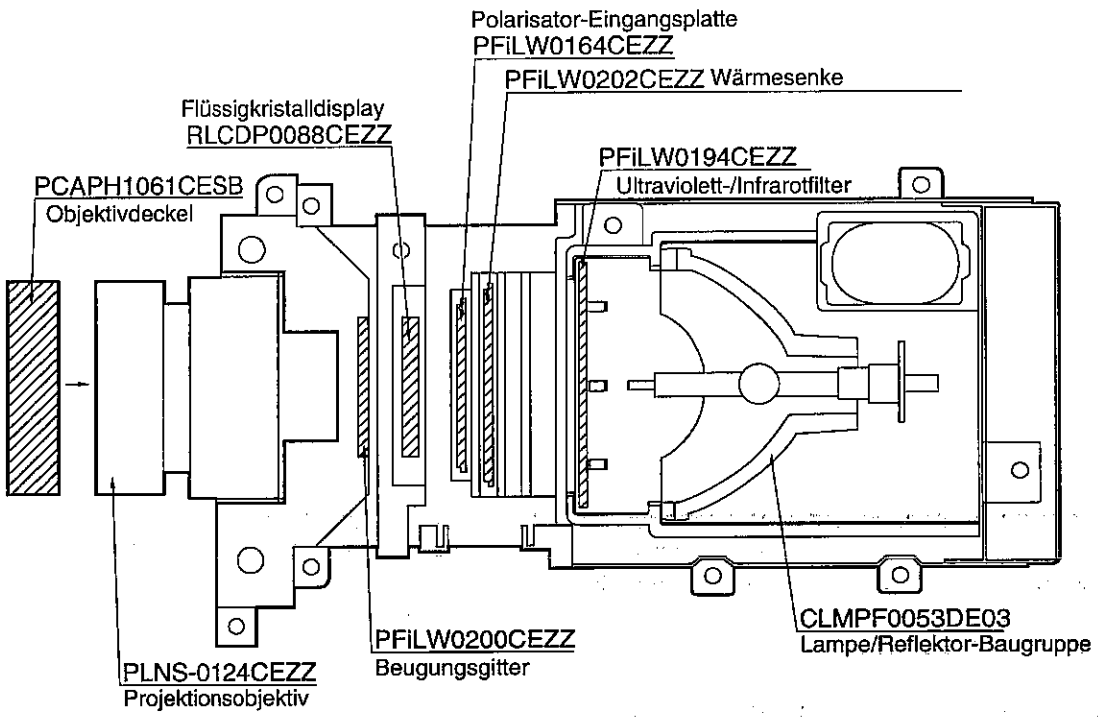
5-3. Die Lampen-Arretierfeder aus dem Haken unter dem Lampengehäuse lösen. Nun die Lampen-/Spiegeleinheit herausnehmen.





OPTIKSYSTEM

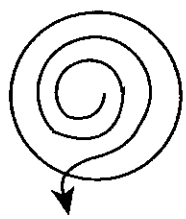
Optikeinheit



■ Reinigung der Objektive und Reflektoren

1. Objektivreiniger

- Reinigungsflüssigkeit:
  Das Mischverhältnis von Alkohol und Äther entsprechend der Umgebungstemperatur wählen. Sicherstellen, daß die Flüssigkeit unmittelbar nach dem Wischen von der Oberfläche der Linsen verdampft, dieses ist dann das beste Verhältnis. Je mehr Äther verwendet wird, desto schneller verdampft die Flüssigkeit.
- Methode:
  Ein gut gespültes, gebleichtes Baumwolltuch oder im Fachhandel erhältliches Reinigungspapier verwenden. Das gebleichte Baumwolltuch mit der Flüssigkeit befeuchten, und die Linse im Tuch zwischen Daumen und Zeigefinger halten. Die Linse drehen, und seine Oberfläche von der Mitte nach außen wischen, um Staub zu entfernen. Darauf achten, die vergütete Oberfläche nicht zu stark zu reiben.



■ Kontrolle der Gesamtbetriebsstunder der Lampe

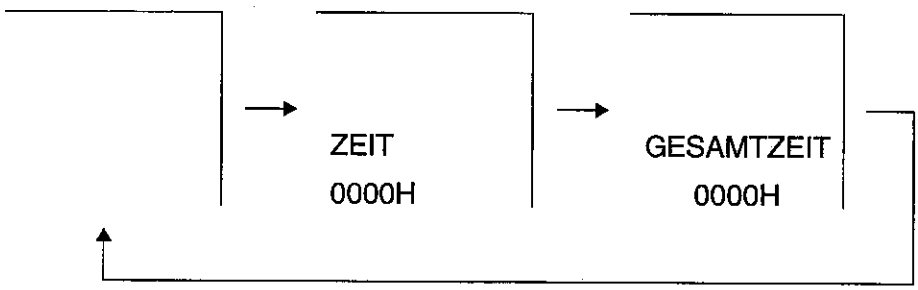
Die folgende Kontrolle wird durchgeführt, wenn die Lampe 1900 Stunden und 2000 Stunden verwendet wurde.

1. **Nach 1900 Stunden Verwendung**
   Beim Einschalten der Spannungsversorgung erscheint "LAMP" für etwa 1 Minute (blinkt gelb) auf der Bildschirm-Anzeige, und die Lampen-LED leuchtet rot.
   Wenn die Betriebszeit von 1900 Stunden während der Verwendung des Geräts erreicht wird, blinkt die Anzeige "LAMP" gelb auf dem Bildschirm für 1 Minute genau zur Betriebszeit von 1900 Stunden.
   Dann wechselt die Lampen-LED von grün zu rot.

2. **Nach 2000 Stunden Verwendung**
   Wenn die Spannungsversorgung eingeschaltet wird, erscheint "LAMP" für 5 Minuten (blinkt rot) auf der Bildschirm-Anzeige, und die Lampen-LED leuchtet rot. Fünf Minuten danach wird die Spannungsversorgung automatisch ausgeschaltet und der Betrieb des Geräts unterbrochen. Wird die Betriebszeit von 2000 Stunden während der Verwendung des Geräts erreicht, blinkt "LAMP" für 5 Minuten rot auf dem Bildschirm genau zur Betriebszeit von 2000 Stunden. Fünf Minuten später wird die Spannungsversorgung automatisch ausgeschaltet und der Betrieb des Geräts unterbrochen. (Die Lampen-LED leuchtet seit dem Erreichen der Betriebszeit von 1900 Stunden ständig rot.)
   Wenn nach der 2000-Stunden-Betriebszeit zweimal versucht wird, die Spannungsversorgung einzuschalten, bleibt das Gerät ausgeschaltet.

3. **Bei Erreichen der 2000-Stunden-Betriebszeit die folgenden Schritte durchführen.**
   Die Lampe gegen eine neue auswechseln. Beide Tasten "VOLUME ▼" und "SELECT/ADJ ▼" am Gerät gedrückt halten und dabei den Hauptnetzschalter (an der Rückseite des Geräts) einschalten. Dadurch wird der Lampen-Betriebsstundenzähler auf null zurückgestellt. Das Gerät einschalten und sicherstellen, daß "0000H" auf der Zeit-Anzeige angezeigt wird.

4. **Anzeige der Gesamtbetriebsstunden der Lampe**
   Die STATUS3-Dateneinstellungen ändern: PICTURE auf 0, BRIGHT auf MAX, COLOR auf MIN, TINT auf MIN und SHARPNESS auf MAX. Die Tasten SOUND DOWN und ENTER für mindestens 2 Sekunden gedrückt halten. Dadurch werden die Gesamtbetriebsstunden auf dem Bildschirm angezeigt.



FUNKTION ADJ IN (Eingangseinstellung)

1. Tasten für die Einstellung

An der Neben-Leiterplatte: S2001
Steuertasten: [ENTER], [MENU], [SELECT/ADJ.▲], [SELECT/ADJ.▼], [VOLUME+],

2. Bedienung

S2001 drücken, um den ADJ IN-Modus abzurufen.
Mit den Tasten [SELECT/ADJ. ▲] und [SELECT/ADJ.▼] eine Einstellungsgruppe wählen, dann die Taste [ENTER] drücken.
Erneut mit den Tasten [SELECT/ADJ. ▲] und [SELECT/ADJ.▼] ein Einstellungselement wählen, dann wieder die Taste [ENTER] drücken.
Die Tasten [SELECT/ADJ. ▲] und [SELECT/ADJ.▼] dienen außerdem zum Durchführen der Einstellungen.
Bei jeder Betätigung der Taste [ENTER] am ADJ IN-Bildschirm werden die Einstellungselemente einer Gruppe nacheinander gewechselt. (Durch Drücken der Taste [VOLUME +] werden die Elemente in umgekehrter Reihenfolge durchlaufen.)
Wenn die Taste [MENU] key is pressed, gedrückt wird, erscheint die vorherige Gruppe am Bildschirm.
S2001 erneut drücken, um den ADJ IN-Modus zu verlassen.

	Gruppe							
	VIDEO 1	VIDEO 2	VIDEO 3	VIDEO 4	SET	N • W	LINE	TEST
Einstellung -selemente	H-CENT P-H-CENT CONT BRIGHT SUB-R SUB-G SUB-B	SUB-BIAS R-BIAS B-BIAS R-DRIVE B-DRIVE TINT COLOR P-COLOR S-COLOR	GAMMA1 GAMMA2 AGCADJ T-BRT	C-CONT C-BRIGHT C-COLOR C-TINT C-H-CENT C-PH-CENT	HL	RED GREEN BLUE N • W	AUTO OFF TIMER TEMP1 TEMP2 FACTORY SET4	TIME1 TIME2

Die Einstellgruppe "LINE" wird hier nicht verwendet.
Kein Signal zuführen, wenn die Einstellungsgruppe "N • W" verwendet wird.

3. Einstellelemente

VIDEO 1

H-CENT	Einstellung der Horizontalposition für NTSC
P-H-CENT	Einstellung der Horizontalposition für PAL-System
CONT	Einstellung des Unterkontrastes
BRIGHT	Einstellung der Helligkeit
SUB-R	Nicht belegt, auf 0 (null) eingestellt
SUB-G	Nicht verwendet, muß 0 (null) sein
SUB-B	Nicht verwendet, muß 0 (null) sein

VIDEO 2

SUB-BIAS	Einstellung der Unter-Vormagnetisierung
R-BIAS	Weißbalance (rot), Einstellung der Vormagnetisierung
B-BIAS	Weißbalance (blau), Einstellung der Vormagnetisierung
R-DRIVE	Weißbalance (rot), Einstellung der Ansteuerung
B-DRIVE	Weißbalance (blau), Einstellung der Ansteuerung
TINT	TINT-Einstellung
COLOR	Farbpegel-Einstellung
P-COLOR	Farbpegel-Einstellung für PAL-System
S-COLOR	Farbpegel-Einstellung für SECAM-System

VIDEO 3

GAMMA1	Gamma-Korrektur 1
GAMMA2	Gamma-Korrektur 2
AGC ADJ	AGC-Einstellung
T-BRT	Chroma-IC-Helligkeitseinstellung

VIDEO 4

C-CONT	Kontrasteinstellung für Komponenten-Eingangssignal
C-BRIGHT	Helligkeitseinstellung für Komponenten-Eingangssignal
C-COLOR	Farbpegel-Einstellung für Komponenten-Eingangssignal
C-TINT	Tönungseinstellung für Komponenten-Eingangssignal
C-H-CENT	Einstellung der Horizontalposition für Komponenten-Eingangssignal am NTSC-System
C-PH-CENT	Einstellung der Horizontalposition für Komponenten-Eingangssignal am PAL-System

SET

HL	Einstellung des Temperaturerfassungspegels

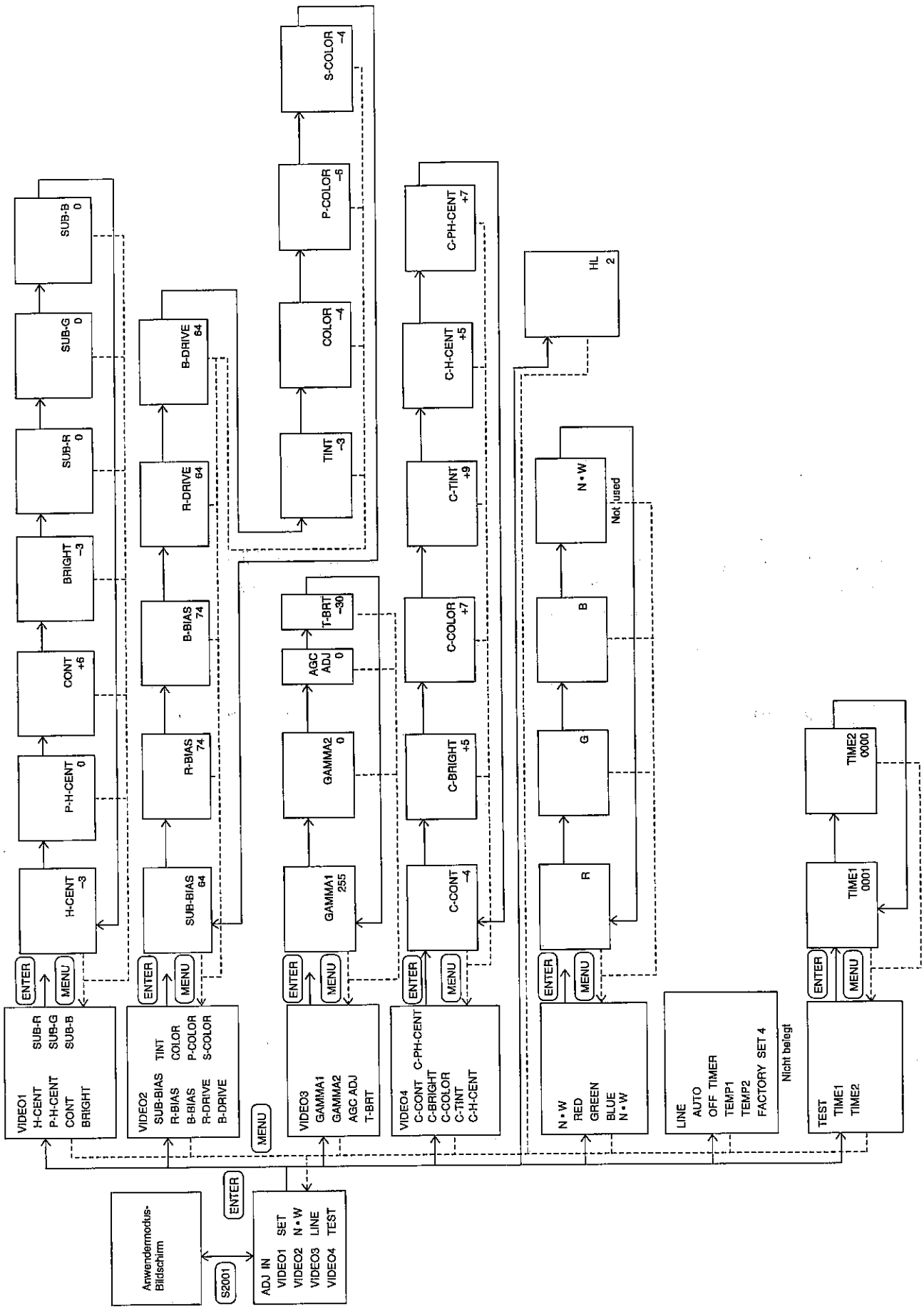
N • W (Einfarbige Anzeige)

RED	Rot
GREEN	Grün
BLUE	Blau
N • W	Nicht verwendet

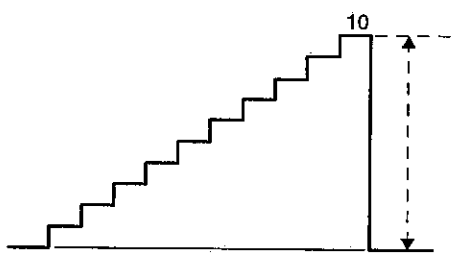
TEST

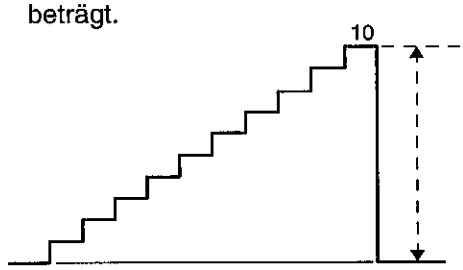
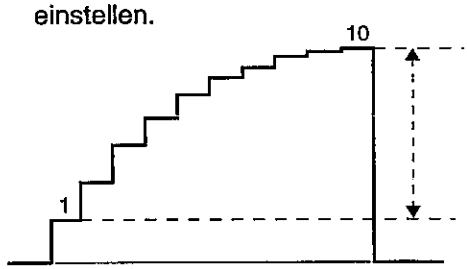
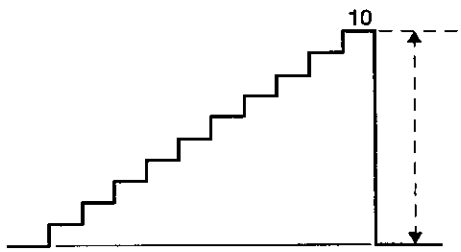
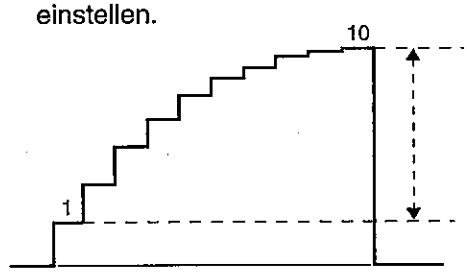
TIME1	Einstellung in 1-Stunden-Schritten für Gesamt-Glühlampen-Timer
TIME2	Einstellung 1899 h - 1999 h - 0 h - 1899 h für Gesamt-Glühlampen-Timer

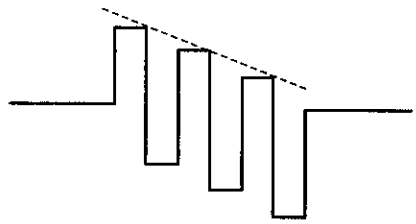
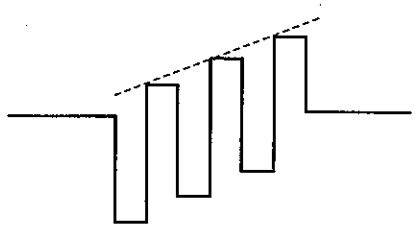
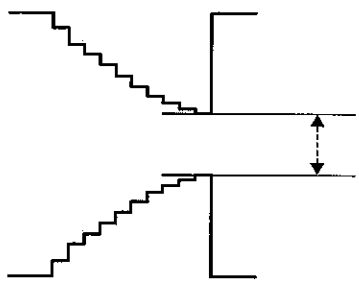
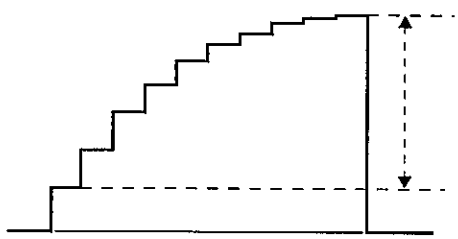
FLIESSDIAGRAMM DER EINSTELLUNGEN

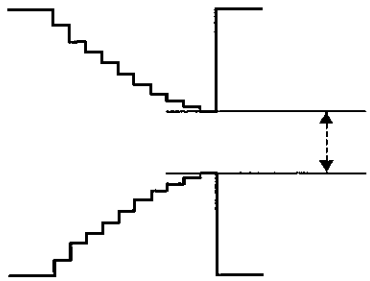
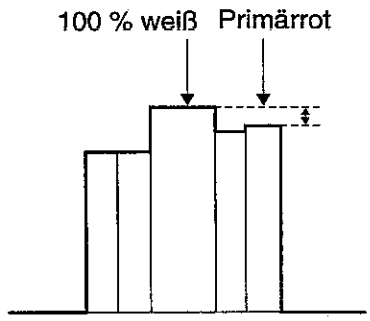
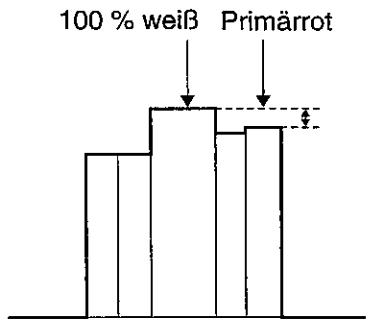


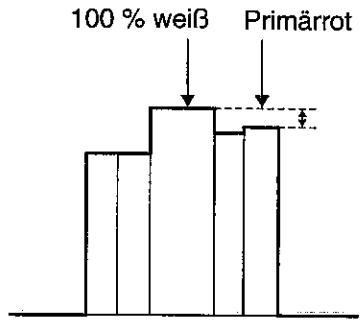
ELEKTRISCHE EINSTELLUNG

Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
1	**NTSC-Freilauffrequenz (R1616)**	1. Das NTSC-Monoskopsignal empfangen. 2. S801 gedrückt halten.	• R1616 drehen, bis das Bild nach Spezifikation erscheint.
2	**PAL-Freilauffrequenz (R1602)**	1. Das PAL-Monoskopsignal empfangen. 2. S801 gedrückt halten.	• R1602 drehen, bis das Bild nach Spezifikation erscheint.
3	**NTSC-Horizontal-zentrierung (Digital/Analog-Wandler)**	1. Das NTSC-Monoskopsignal empfangen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 1 Element: H-CENT	• Mit den Tasten ▲ und ▼ die Nutzflächenüberschreitung rechts und links gleich einstellen. Overscan: 91 - 97%
4	**PAL-Horizontal-zentrierung (Digital/Analog-Wandler)**	1. Das PAL-Monoskopsignal empfangen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 1 Element: PAL-H-CENT	• Mit den Tasten ▲ und ▼ die Nutzflächenüberschreitung rechts und links gleich einstellen. Overscan: 91 - 97%
5	**Kontrast (Digital/Analog-Wandler) (Gammakorrektur eingeschaltet)**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: S-BIAS 4. Mit den Tasten ▲ und ▼ die Wellenform auf die richtige Form einstellen. 5. S2001 noch einmal drücken, um den ADJ IN-Modus zu aktivieren, dann die nachfolgende Position wählen. Gruppe: VIDEO 1 Element: SUB-R, SUB-G, SUB-B Sicherstellen, daß diese Elemente alle den Eintrag 0 (null) aufweisen. 6. R861 so einstellen, daß die größte Verstärkung erhalten wird. 7. Gruppe: VIDEO 1 Element: CONT	• Mit den Tasten ▲ und ▼ den Unterschied zwischen dem 10-Stufenpegel und dem Austastpegel auf 6,0 ±0,15 Vs-s einstellen. 

Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
6	**Automatische Verstärkungs-regelung: R861 (Gammakorrektur ausgeschaltet)**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1401 und GND anschließen. 3. Den nachfolgenden Gegendstand wählen. Gruppe: VIDEO 1 Gegenstand: CONT	• R861 drehen, so daß die Differenz zwischen dem 100 % Weißpegel und dem Austastpegel auf 4,8 ±0,05 Vss beträgt. 
7	**Kontrast (D/A-Wandler) (Gammakorrektur aus)**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 1 Element: BRIGHT	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem Pegel der ersten Stufe und dem 100 % Weißpegel auf 2,0 ±0,05 Vss einstellen. 
8	**Komponentensignal-Kontrast (DAC) (Gammakorrektur aus)**	1. Ein NTSC-10-Stufen-Testbildsignal dem Komponentensignal-Anschluß zuführen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 4 Element: C-CONT	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem 100 % Weißpegel und dem Austastpegel auf 4,8 ±0,05 einstellen. 
9	**Komponentensignal-Helligkeit (DAC) (Gammakorrektur aus)**	1. Ein NTSC-10-Stufen-Testbildsignal dem Komponentensignal-Anschluß zuführen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1402 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 4 Element: C-BRIGHT	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem Pegel der ersten Stufe und dem 100 % Weißpegel auf 2,0 ±0,05 Vss einstellen. 

Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
10	**Farbton (Digital/ Analog-Wandler)**	1. Das NTSC-Halbfarbbalkensignal empfangen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: TINT 3. Das Doppelstrahl-Oszilloskop zwischen Stift (5) von P803 und GND anschließen.	• Mit den Tasten ▲ und ▼ die Signalwellenform (B-Y) auf eine gerade Abwärtsflanke einstellen. 
11	**Komponentensignal-Tönung (DAC)**	1. Ein NTSC-Halbfarbbalkensignal dem Komponentensignal-Anschluß zuführen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 4 Element: C-TINT 3. Das Doppelstrahl-Oszilloskop zwischen Stift (3) von P803 und GND anschließen.	• Mit den Tasten ▲ und ▼ die Signalwellenform (B-Y) auf eine gerade Abwärtsflanke einstellen. 
12	**Unter-Vormagnetisierung (Digital/ Analog-Wandler) (Gammakorrektur eingeschaltet)**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (2) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: SUB-BIAS	• Mit den Tasten ▲ und ▼ die Differenz zwischen den Weißpegeln auf 3,0 ±0,05 Vss einstellen. 
13	**R-Ansteuerung B-Ansteuerung**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Ein Doppelstrahl-Oszilloskop zwischen Stift (3) (R) [oder Stift (1) (B)] von P1401 und der Masse (GND) anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: R-DRIVE, B-DRIVE	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem Pegel der ersten Stufe und dem Weißpegel auf 2,0 ±0,05 Vss einstellen. 

Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
14	**R-Vormagnetisierung** **B-Vormagnetisierung**	1. Das 10stufige NTSC-Mustersignal empfangen. 2. Ein Doppelstrahl-Oszilloskop zwischen Stift (3) (R) [oder Stift (1) (B)] von P1401 und der Masse (GND) anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: R-BIAS, B-BIAS	• Mit den Tasten ▲ und ▼ die Differenz zwischen den Weißpegeln auf 3.0 ±0,05 Vss einstellen. 
15	**NTSC-Farbe (Digital/Analog-Wandler) (Gammakorrektur eingeschaltet)**	1. Das NTSC-Halbfarbbalkensignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (3) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: COLOR	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem 100 % Weißpegel und dem Rotpegel auf 0±0,05 Vss einstellen. 
16	**PAL-Farbe (Digital/Analog-Wandler) (Gammakorrektur eingeschaltet)**	1. Das PAL-Halbfarbbalkensignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (3) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: P-COLOR	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem 100 % Weißpegel und dem Rotpegel auf 0,10 ±0,05 Vss einstellen. 

Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
17	**SECAM-Farbe (Digital/Analog-Wandler) (Gammakorrektur eingeschaltet)**	1. Das SECAM-Halbfarbbalkensignal empfangen. 2. Das Doppelstrahl-Oszilloskop zwischen Stift (3) von P1401 und GND anschließen. 3. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: S-COLOR	• Mit den Tasten ▲ und ▼ die Differenz zwischen dem 100 % Weißpegel und dem Rotpegel auf 0,10 ±0,05 Vss einstellen. 
18	**Farbe des Komponenten-signals (DAC)**	1. Ein NTSC-Halbfarbbalkensignal dem Komponentensignal-Anschluß zuführen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 4 Element: C-COLOR	• Sich vergewissern, daß der Wert auf "12" gesetzt ist.
19	**Gegen-Vormagnetisie-rung (R1402)**	1. Das NTSC-Monoskopsignal empfangen.	• R1402 so drehen, daß der beste Kontrast erhalten wird.
20	**Weißbalance (DAC)**	1. Das NTSC-Monoskopsignal empfangen. 2. S2001 drücken, um in den Modus ADJ IN zu schalten, und das folgende Element wählen. Gruppe: VIDEO 2 Element: R-BIAS, B-BIAS	• Unter Verwendung der ▲ und ▼ Tasten den Weißabgleich visuell auf die optimale Position einstellen.

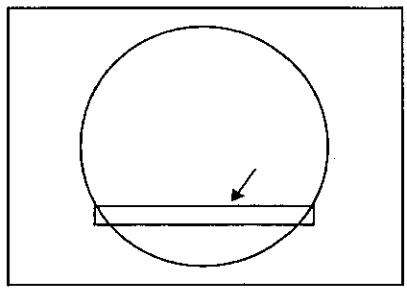
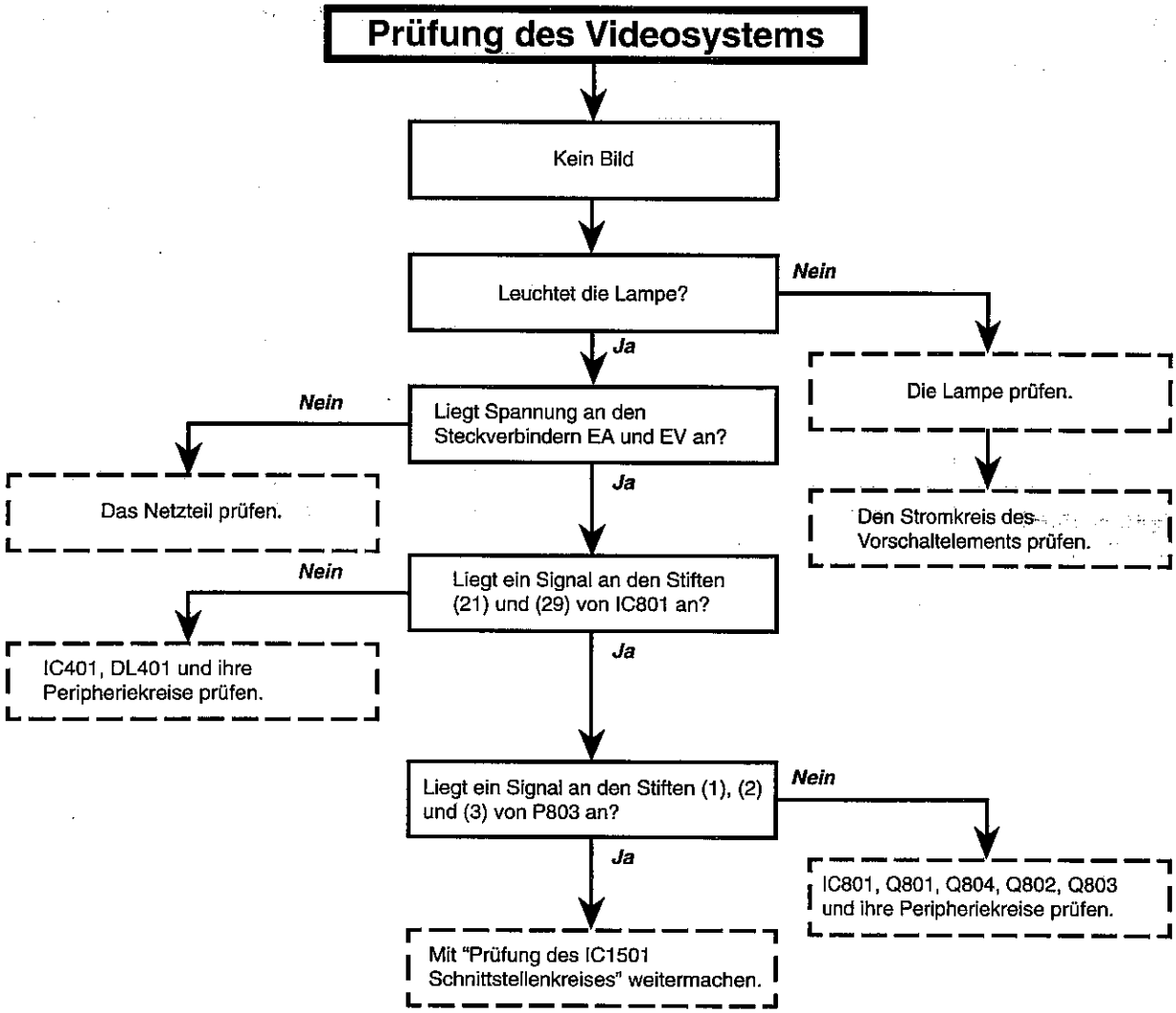
Nr.	Einstellgegenstand	Einstellbedingungen	Einstellverfahren
21	**Prüfung der Bildschirman-zeigeposition (L2003)**	1. Das NTSC-Monoskopsignal empfangen. 2. Die Tasten SOUND UP/DOWN drücken, um den Lautstärkebalken auf den Bildschirm zu rufen.	• L2003 drehen, so daß der Balken gut auf dem Bildschirm zentriert ist. 
22	**Überprüfung der Temperatursensor-Einstellung**	1. S2001 drücken, um in den Modus ADJ IN zu schalten, und die folgende Gruppe wählen. Gruppe: SET Element: HL	• Sich vergewissern, daß der Wert auf "2" gesetzt ist.
23	**Horizontale Mitte des Komponenten-signals (NTSC) (DAC)**	1. Das NTSC-Testbildsignal zuführen. 2. S2001 drücken, um den ADJ IN-Modus zu aktivieren, dann die folgende Position wählen. Gruppe: VIDEO 4 Element: C-H-CENT	• Unter Verwendung der ▲ und ▼ Tasten den Abtastbereich rechts und links auf die genau gleiche Distanz einstellen. Abtastbereich: 91 - 97%
24	**Horizontale Mitte des Komponenten-signals (PAL) (DAC)**	1. Das PAL-Testbildsignal zuführen. 2. S2001 drücken, um den ADJ IN-Modus zu aktivieren, dann die folgende Position wählen. Gruppe: VIDEO 4 Element: C-PH-CENT	• Unter Verwendung der ▲ und ▼ Tasten den Abtastbereich rechts und links auf die genau gleiche Distanz einstellen. Abtastbereich: 91 - 97%

TABELLE FÜR STÖRUNGSSUCHE


Prüfung des Videosystems
Kein Bild
Leuchtet die Lampe?
Nein
Ja
Die Lampe prüfen.
Den Stromkreis des Vorschaltelements prüfen.
Liegt Spannung an den Steckverbindern EA und EV an?
Nein
Ja
Das Netzteil prüfen.
Liegt ein Signal an den Stiften (21) und (29) von IC801 an?
Nein
Ja
IC401, DL401 und ihre Peripheriekreise prüfen.
Liegt ein Signal an den Stiften (1), (2) und (3) von P803 an?
Nein
Ja
IC801, Q801, Q804, Q802, Q803 und ihre Peripheriekreise prüfen.
Mit "Prüfung des IC1501 Schnittstellenkreises" weitermachen.

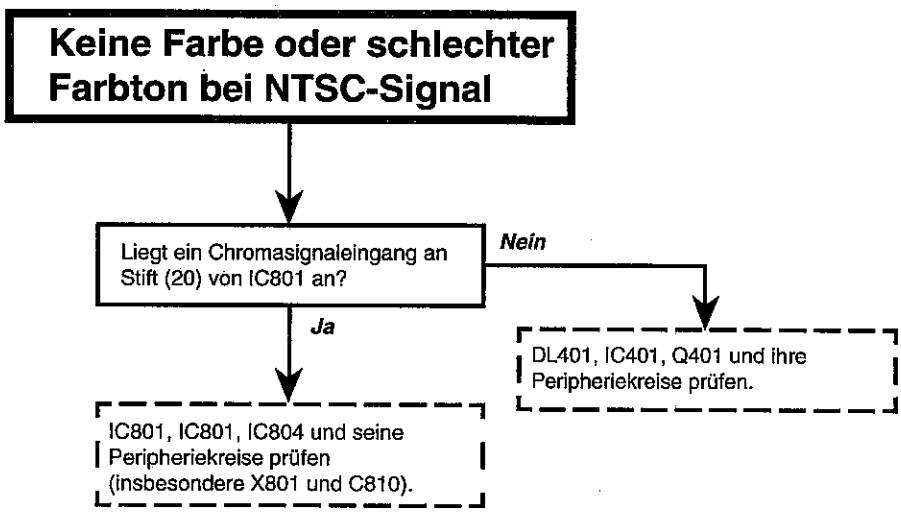
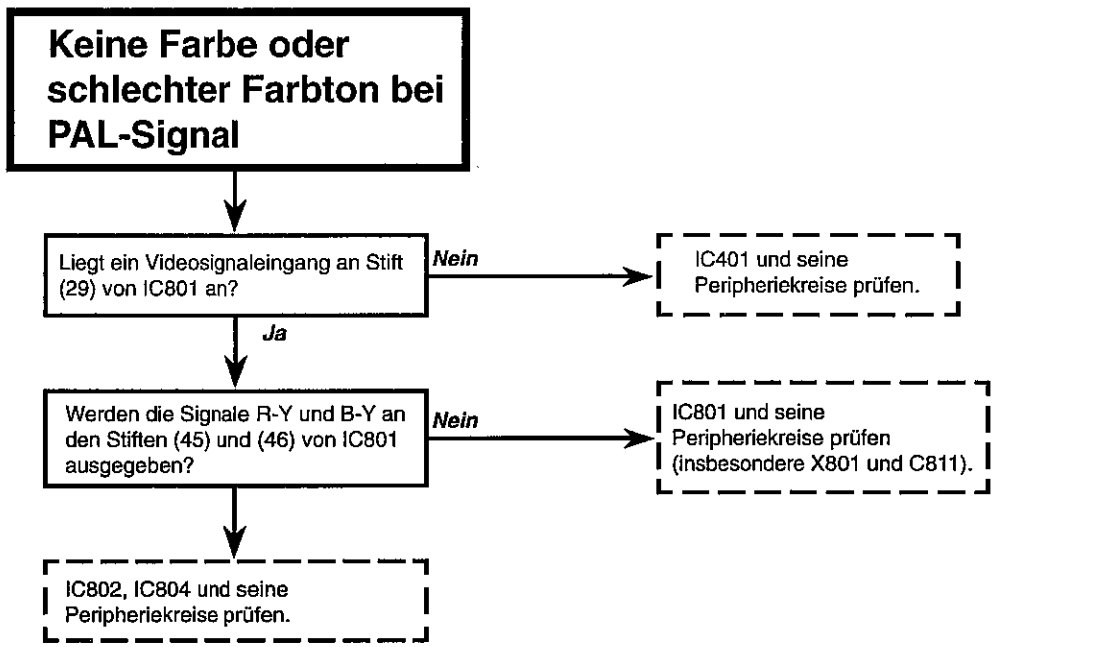

Keine Farbe oder schlechter Farbton bei NTSC-Signal
Liegt ein Chromasignaleingang an Stift (20) von IC801 an?
Nein
Ja
DL401, IC401, Q401 und ihre Peripheriekreise prüfen.
IC801, IC801, IC804 und seine Peripheriekreise prüfen (insbesondere X801 und C810).

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)


Keine Farbe oder schlechter Farbton bei PAL-Signal
Liegt ein Videosignaleingang an Stift (29) von IC801 an?
Nein
IC401 und seine Peripheriekreise prüfen.
Ja
Werden die Signale R-Y und B-Y an den Stiften (45) und (46) von IC801 ausgegeben?
Nein
IC801 und seine Peripheriekreise prüfen (insbesondere X801 und C811).
IC802, IC804 und seine Peripheriekreise prüfen.

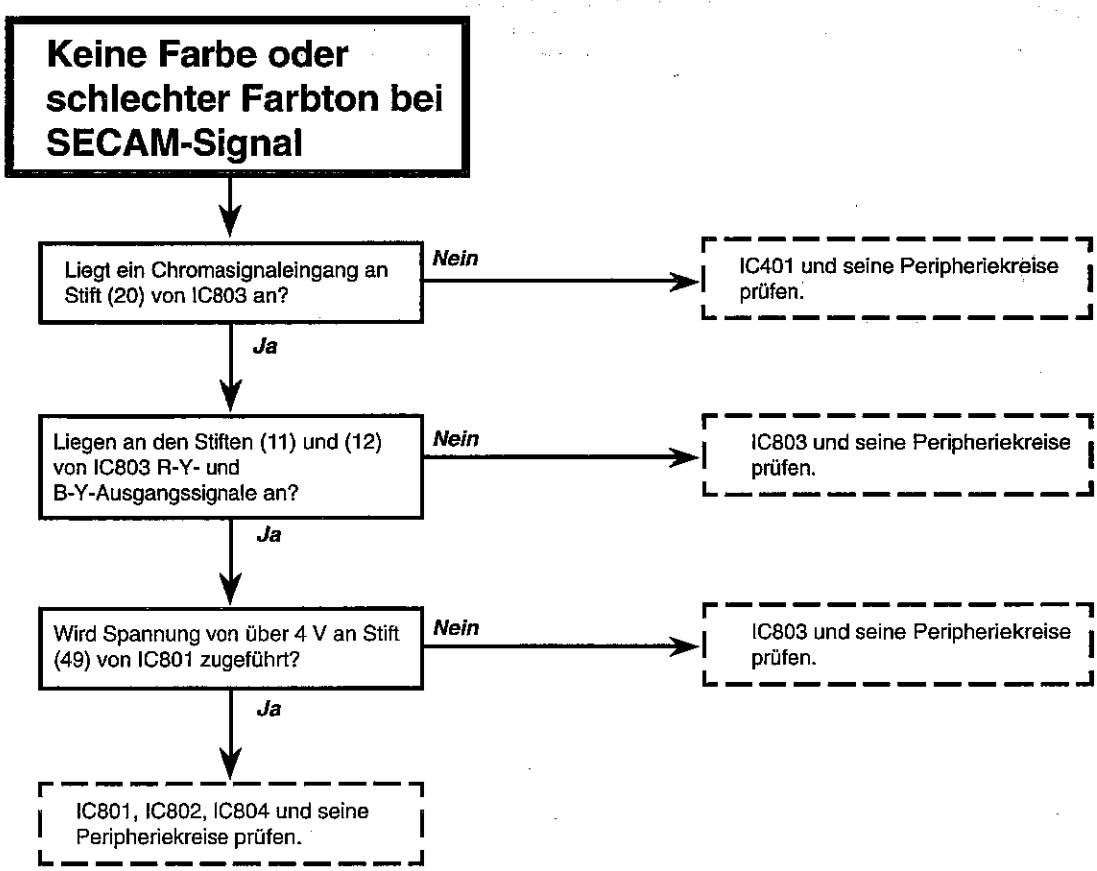

Keine Farbe oder schlechter Farbton bei SECAM-Signal
Liegt ein Chromasignaleingang an Stift (20) von IC803 an?
Nein
IC401 und seine Peripheriekreise prüfen.
Ja
Liegen an den Stiften (11) und (12) von IC803 R-Y- und B-Y-Ausgangssignale an?
Nein
IC803 und seine Peripheriekreise prüfen.
Ja
Wird Spannung von über 4 V an Stift (49) von IC801 zugeführt?
Nein
IC803 und seine Peripheriekreise prüfen.
Ja
IC801, IC802, IC804 und seine Peripheriekreise prüfen.

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

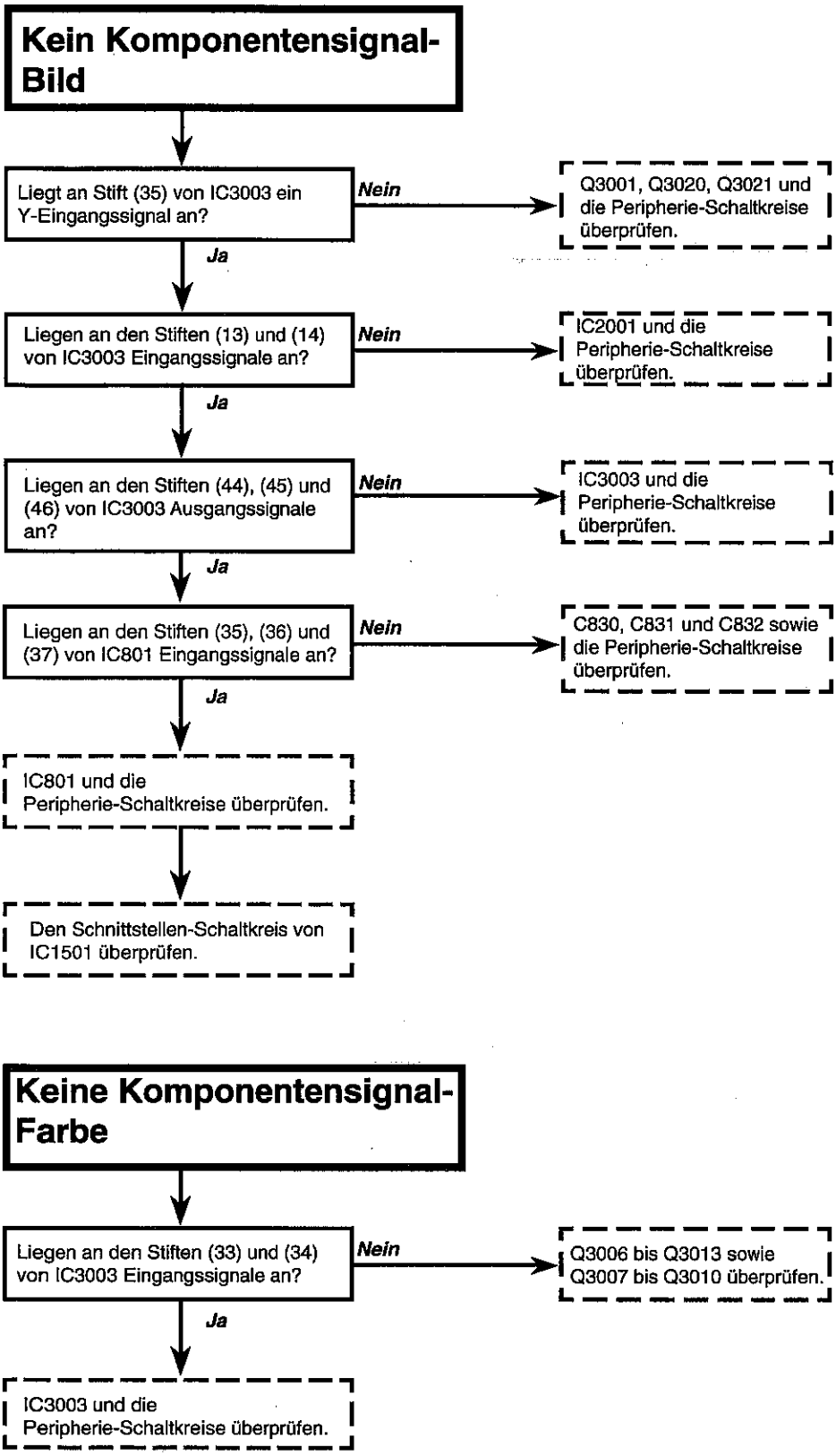
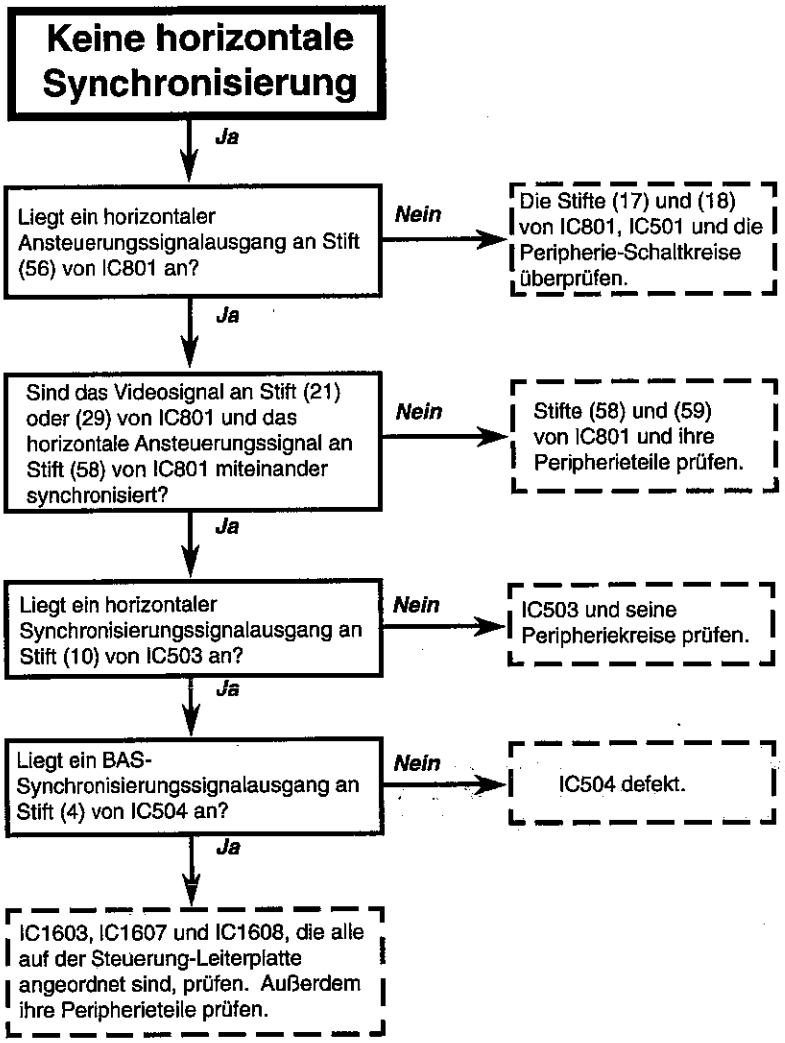

Kein Komponentensignal-Bild
Liegt an Stift (35) von IC3003 ein Y-Eingangssignal an?
Nein
Q3001, Q3020, Q3021 und die Peripherie-Schaltkreise überprüfen.
Ja
Liegen an den Stiften (13) und (14) von IC3003 Eingangssignale an?
Nein
IC2001 und die Peripherie-Schaltkreise überprüfen.
Ja
Liegen an den Stiften (44), (45) und (46) von IC3003 Ausgangssignale an?
Nein
IC3003 und die Peripherie-Schaltkreise überprüfen.
Ja
Liegen an den Stiften (35), (36) und (37) von IC801 Eingangssignale an?
Nein
C830, C831 und C832 sowie die Peripherie-Schaltkreise überprüfen.
Ja
IC801 und die Peripherie-Schaltkreise überprüfen.
Den Schnittstellen-Schaltkreis von IC1501 überprüfen.
Keine Komponentensignal-Farbe
Liegen an den Stiften (33) und (34) von IC3003 Eingangssignale an?
Nein
Q3006 bis Q3013 sowie Q3007 bis Q3010 überprüfen.
Ja
IC3003 und die Peripherie-Schaltkreise überprüfen.

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)


Keine horizontale Synchronisierung
Ja
Liegt ein horizontaler Ansteuerungssignalausgang an Stift (56) von IC801 an?
Nein
Die Stifte (17) und (18) von IC801, IC501 und die Peripherie-Schaltkreise überprüfen.
Ja
Sind das Videosignal an Stift (21) oder (29) von IC801 und das horizontale Ansteuerungssignal an Stift (58) von IC801 miteinander synchronisiert?
Nein
Stifte (58) und (59) von IC801 und ihre Peripherieteile prüfen.
Ja
Liegt ein horizontaler Synchronisierungssignalausgang an Stift (10) von IC503 an?
Nein
IC503 und seine Peripheriekreise prüfen.
Ja
Liegt ein BAS-Synchronisierungssignalausgang an Stift (4) von IC504 an?
Nein
IC504 defekt.
Ja
IC1603, IC1607 und IC1608, die alle auf der Steuerung-Leiterplatte angeordnet sind, prüfen. Außerdem ihre Peripherieteile prüfen.

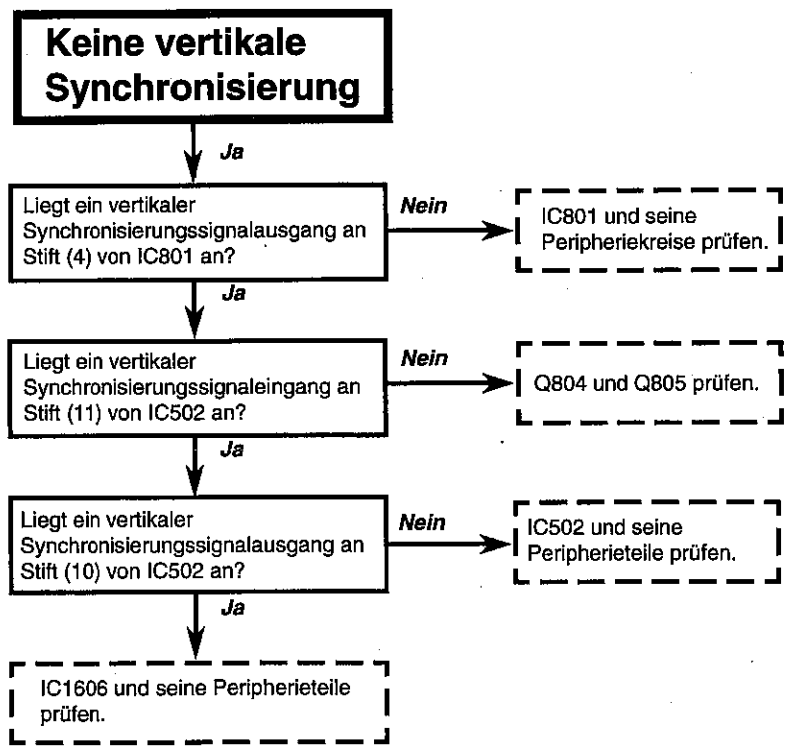
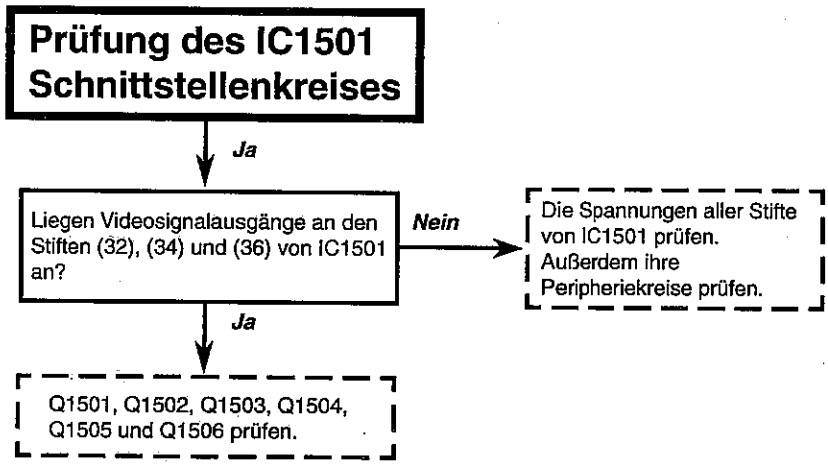
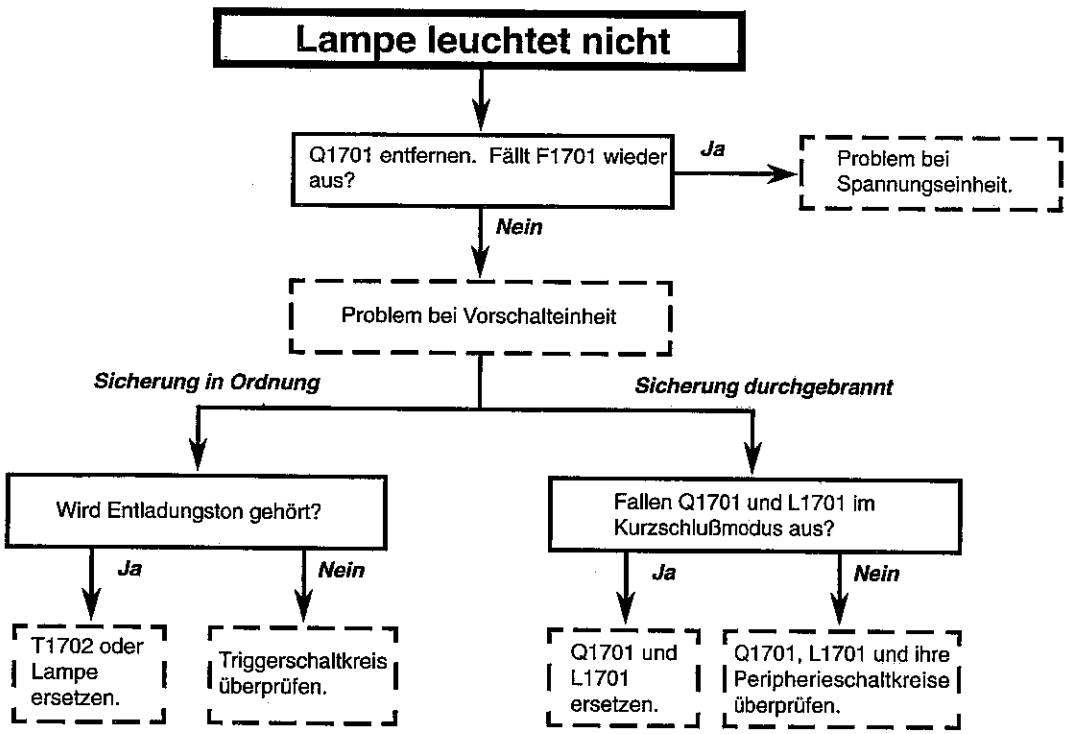


TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)


Prüfung des IC1501 Schnittstellenkreises
Ja
Liegen Videosignalausgänge an den Stiften (32), (34) und (36) von IC1501 an?
Nein
Die Spannungen aller Stifte von IC1501 prüfen. Außerdem ihre Peripheriekreise prüfen.
Ja
Q1501, Q1502, Q1503, Q1504, Q1505 und Q1506 prüfen.



规格

产品类型		液晶投影机
型号		XV-C10A/M/E
视频制式		PAL/SECAM/NTSC 3.58/NTSC 4.43
显示方法		1 块液晶板，RGB 三色光阀方式
液晶显示板	尺寸	1.32 英寸 (20.0 [高] × 26.8 [宽] 毫米)
	显示方法	半透明 TN 液晶板
	驱动方法	TFT (薄膜晶体管) 有源阵列板
	像素数量	181,470 点 (230 [垂直] × 789 [水平])
镜头		F2，f = 56.5 毫米
投影灯泡		155 瓦金属卤灯
对比度		100 : 1
视频输入信号		RCA 连接器：视频，复合视频，峰间值 1.0 伏，负同步，75 欧姆终端 RCA 连接器：音频，有效值 470 毫伏，大于 22 千欧姆 (立体声)
S-视频输入信号		4 芯小型 DIN 连接插头 Y (亮度信号)：峰间值 1.0 伏，负同步，75 欧姆终端 C (色度信号)：脉冲峰间值 0.286 伏，75 欧姆终端
色差视频输入信号		RCA 连接器：Y (亮度信号)：峰间值 1.0 伏，负同步，75 欧姆终端 C_B (B-Y) (色度信号)：峰间值 0.7 伏，75 欧姆终端 C_R (R-Y) (色度信号)：峰间值 0.7 伏，75 欧姆终端 RCA 连接器：音频，有效值 470 毫伏，大于 22 千欧姆 (立体声)
水平解像度		360 电视线 (视频输入)
音频输出		1 瓦 (单耳声)
喇叭系统		6.5 厘米圆形
额定电源电压		交流 220 伏 ~ 240 伏
输入电流		1.3 安
额定电源频率		50/60 赫
耗电量		200 瓦
待用状态耗电量		4 瓦
工作温度		摄氏 +5 度 ~ +40 度
存放温度		摄氏 −20 度 ~ +60 度
外壳		塑料
外形尺寸 (宽×深×高)		310×317×125 毫米 (仅主机) 310×319×136 毫米 (包含调节器脚和投影零件)
重量		3.8 公斤
随机附件		遥控器、2 枚 AAA 型电池、镜头盖 (已装上)、空气过滤网 (已装上) 21腳RCA轉接插頭（僅限於歐洲規格產品）
替换零件		遥控器 (RRMCG1445CESA)、空气过滤网 (PFILD0074CEZZ)

本投影机使用 LCD (液晶显示) 板，该非常精密的显示板里共含有 181,470 个像素 (红绿蓝 Trio 60,490 个像素) 的薄膜晶体管 (TFT)。任何高技术电子设备，如大屏幕电视机、录像系统及摄像机等，都有该设备必须符合的一定误差范围存在。
本投影机在规范许可的限度之内，允许存在一定数量的不起作用的 TFT (薄膜晶体管)，其结果是可能在显示的画面屏幕出现一些亮点。
这并不影响图像质量或投影机的使用寿命。

***规格参数若有变更，恕不另行通知。**

保养维修人员须知

紫外线辐射注意事项

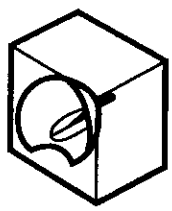
本液晶投影机的光源—金属检卤灯使用时会产生少量的紫外线辐射。

防止眼睛和皮肤的直接曝射

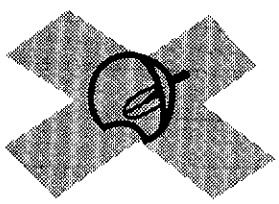
为保证安全，务请遵守下列注意事项：

1. 揭去投影机顶盖并打开金属检卤灯进行检查维修时，务请戴用太阳墨镜。

2. 切勿随意修弄金属检齿灯灯室外壳。



3. 揭去投影机顶盖的保养维修不得超过 2 小时以上。



紫外线辐射与中压灯的注意事项

1. 更换中压灯前，请先拔除电源插头。
2. 保养维修该装置前，请先让其冷却一小时以上。
3. 更换中压灯只得用同类型号者:
   型号 CLMPF0053DE03 额定值 65V/155W。
4. 该灯点亮时有少量紫外线辐射发生，切勿直接曝照裸眼。
5. 中压灯有引起爆炸之危险。安装，保养及维修时，务请按下述要求谨慎处理之。

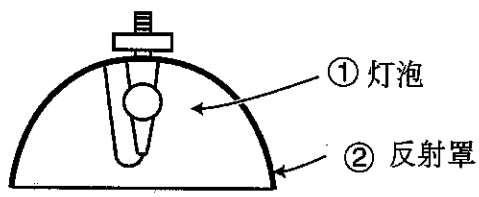
■ 金属检卤灯的更换

注意:

该灯于点亮时所达温度极高。因此，更换该灯至少应在关灯后一小时再进行。（让该灯充分冷却。）

用手安装新灯时，只得抓握检卤灯反射罩②进行安装，切勿用手触碰灯泡电珠。

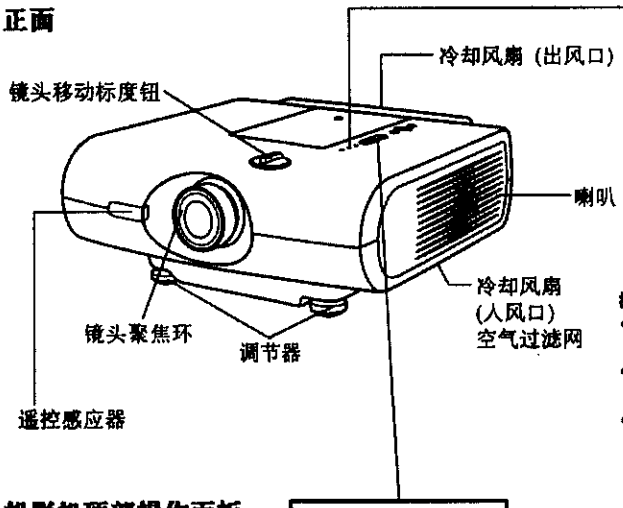
[更换新灯只得用规定正品。]

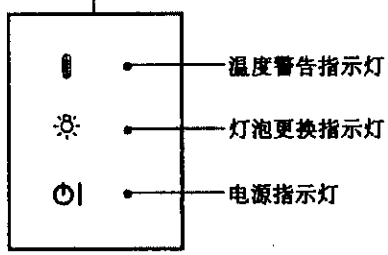


危险！ 一没安装金属检卤灯时，不得打开电源开关。因为引入电源后，稳压器便随即发生极高的电压，足以引起人身高压触电或装置损坏的危险。

控制按钮的位置

正面

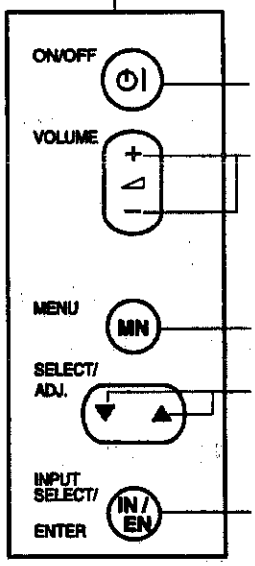




注意:

- 在使用投影机时，出风孔、灯箱盖及其周围的部分会变得非常热。未充分冷却之前切勿触摸这些部分，以免引起烫伤。
- 放置投影机时，要使冷却风扇（出风口）与最近的墙壁或阻碍物体保持10厘米以上的距离。
- 如果冷却风扇被堵塞，机内的保护电路就会启动，投影机灯泡随之便熄灭。这种情况不属于故障。只要将电源插头从电源插座上拔出，并等待10分钟，再将电源插上，投影机即可恢复正常功能。

投影机顶部操作面板



电源开/关按钮 (ON/OFF)

音量按钮（+/−）(VOLUME)

项目选择按钮 (MENU)

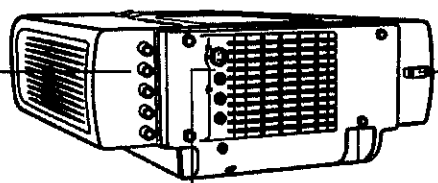
调节按钮（▼/▲）(ADJUSTMENT)

输入选择/输入按钮
(INPUT SELECT/
ENTER)

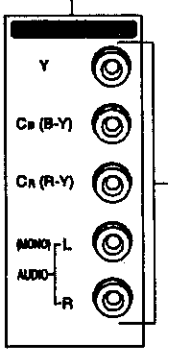
注:

- 输入选择/输入按钮 (INPUT SELECT/ENTER) 通常情况下作为输入选择按钮 (INPUT SELECT) 使用。但是，当进行设置的屏幕上出现 "ENTER"（输入）字样，此按钮就便可作输入按钮（ENTER）使用。

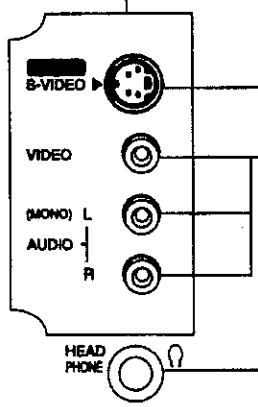
背面



主电源开关
(MAIN POWER)



模拟色差输入
视频: RCA
音频: RCA



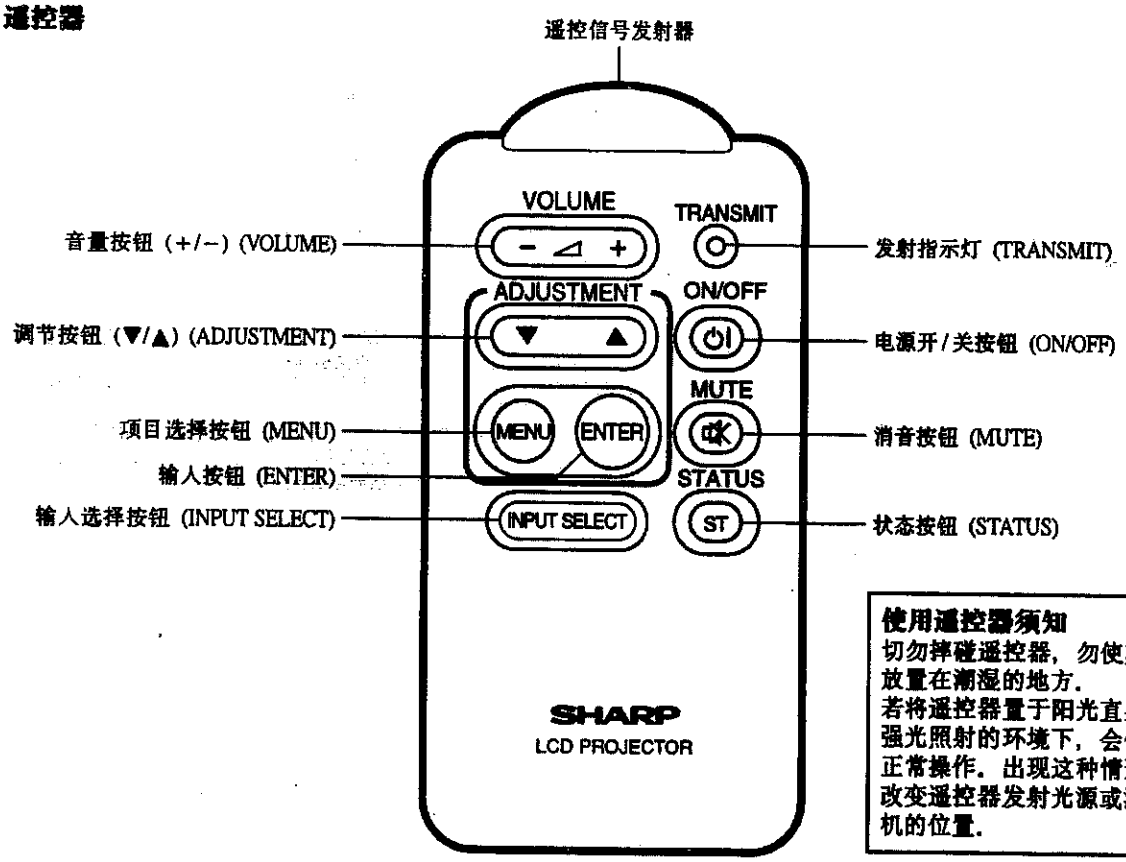
S-视频输入（4芯小型插头）

复合视频输入
视频: RCA
音频: RCA

耳机插口

遥控器的使用方法

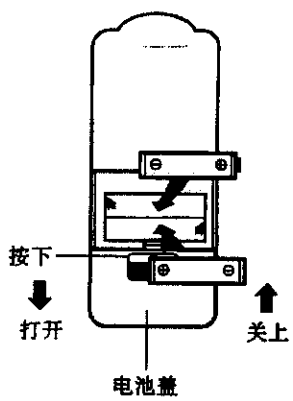
遥控器



使用遥控器须知

切勿摔碰遥控器，勿使其沾水或放置在潮湿的地方。

若将遥控器置于阳光直射或其他强光照射的环境下，会使其不能正常操作。出现这种情形时，请改变遥控器发射光源或液晶投影机的位置。



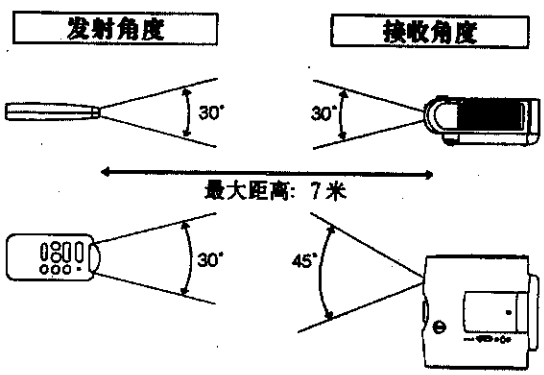
安装电池

如图所示卸下电池盖，装入2枚AAA型电池。请注意电池之极性必须符合电池槽内之（+）和（−）的标记。

注:

电池使用不当会造成漏液或爆裂。

- 插入电池时必须使其极性与电池槽内标出的极性（+）、（−）一致。
- 若长期不使用遥控器，应将电池取出。
- 请保持电池的清洁。
- 切勿将牌号不同的电池混合使用。新旧电池的混合使用会使新电池的寿命缩短，而旧电池则会漏液。
- 当电池耗尽之后，应立刻取出以防漏液对遥控器造成损坏。漏出的电池液体会刺激皮肤，应用布擦拭干净。
- 由于随机附送的电池受存放条件及存放时间影响，可能会在短时间内用完。应尽早更换新的电池。



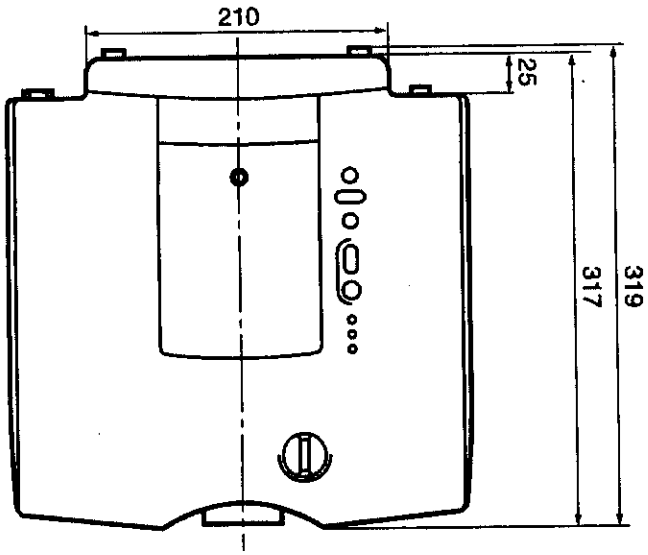
遥控器的操作角度

遥控器的操作角度如左图所示。

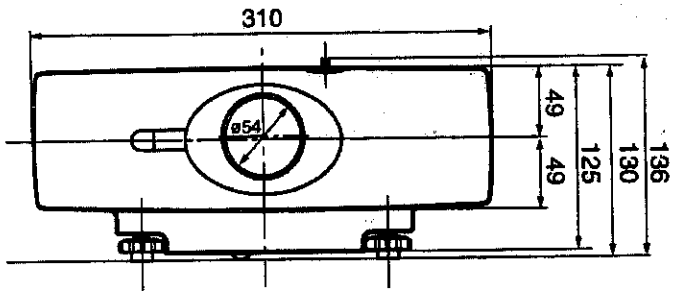
注:

- 为方便操作，遥控器所发出之信号可利用屏幕反射。但信号之有效距离可能因屏幕材料而有所不同。

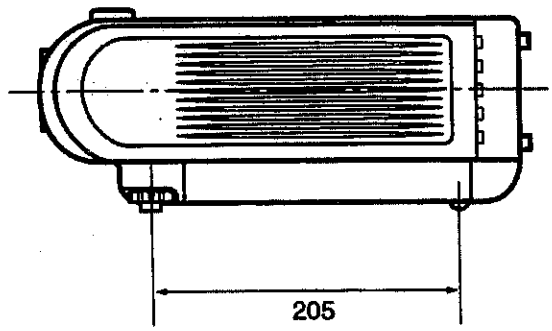
外形尺寸



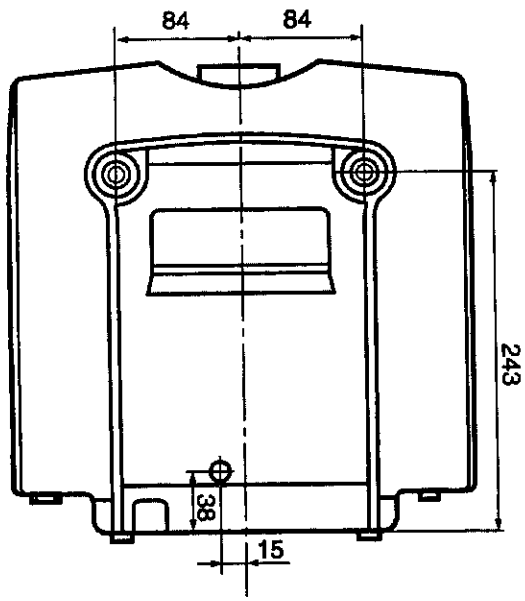
顶部



正面



侧面



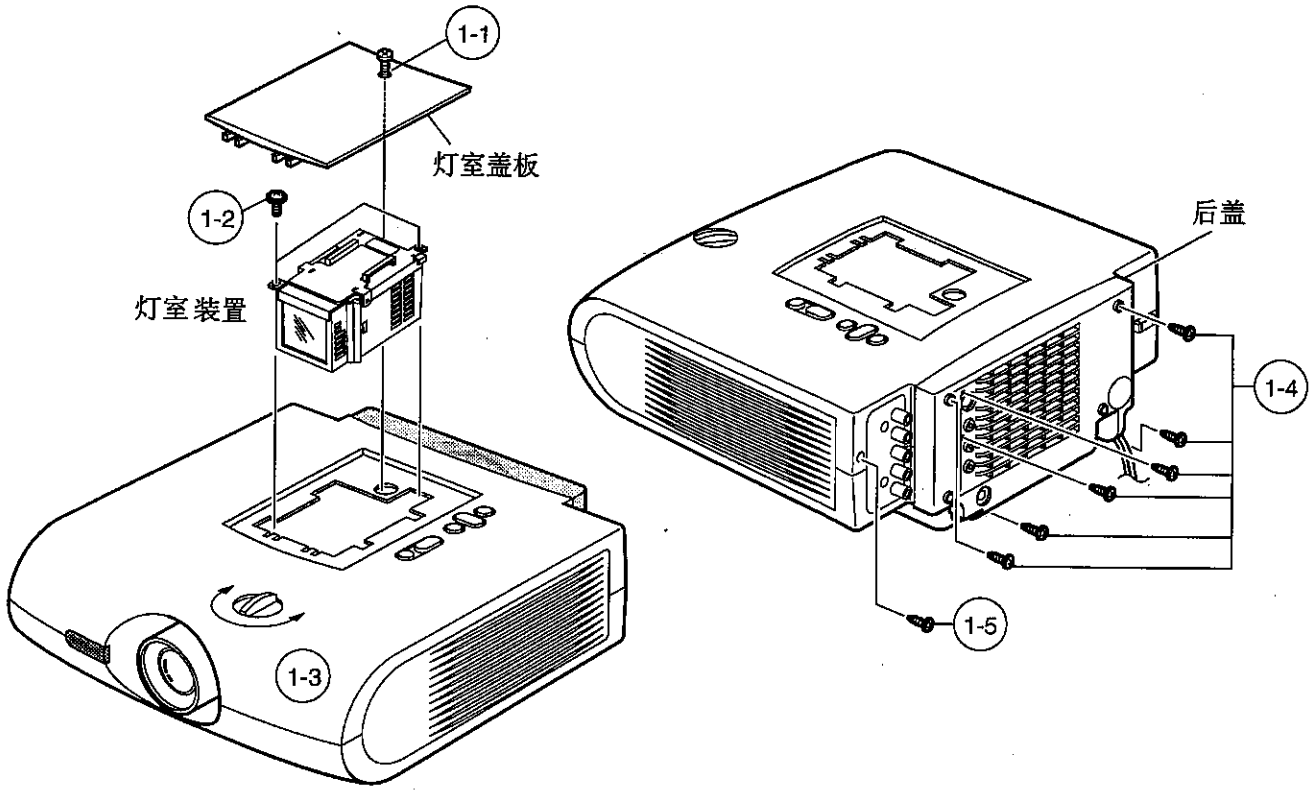
底部

[单位：毫米]

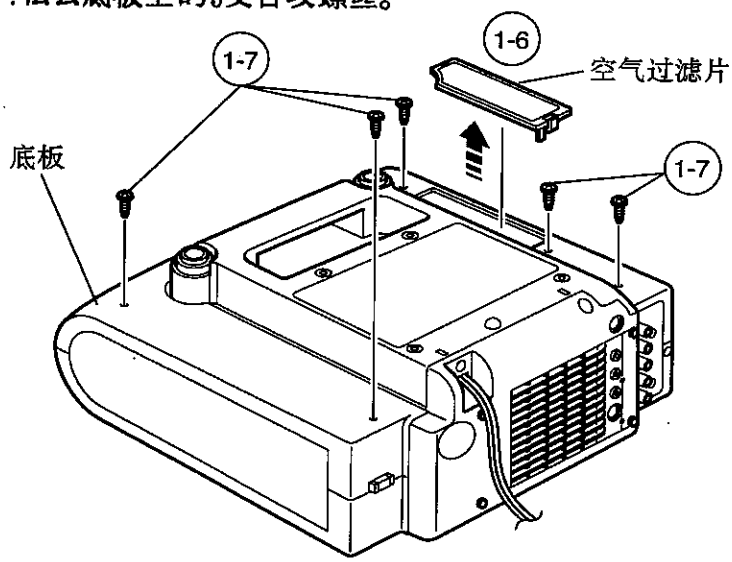
主要部件的拆装

1．壳体的拆卸

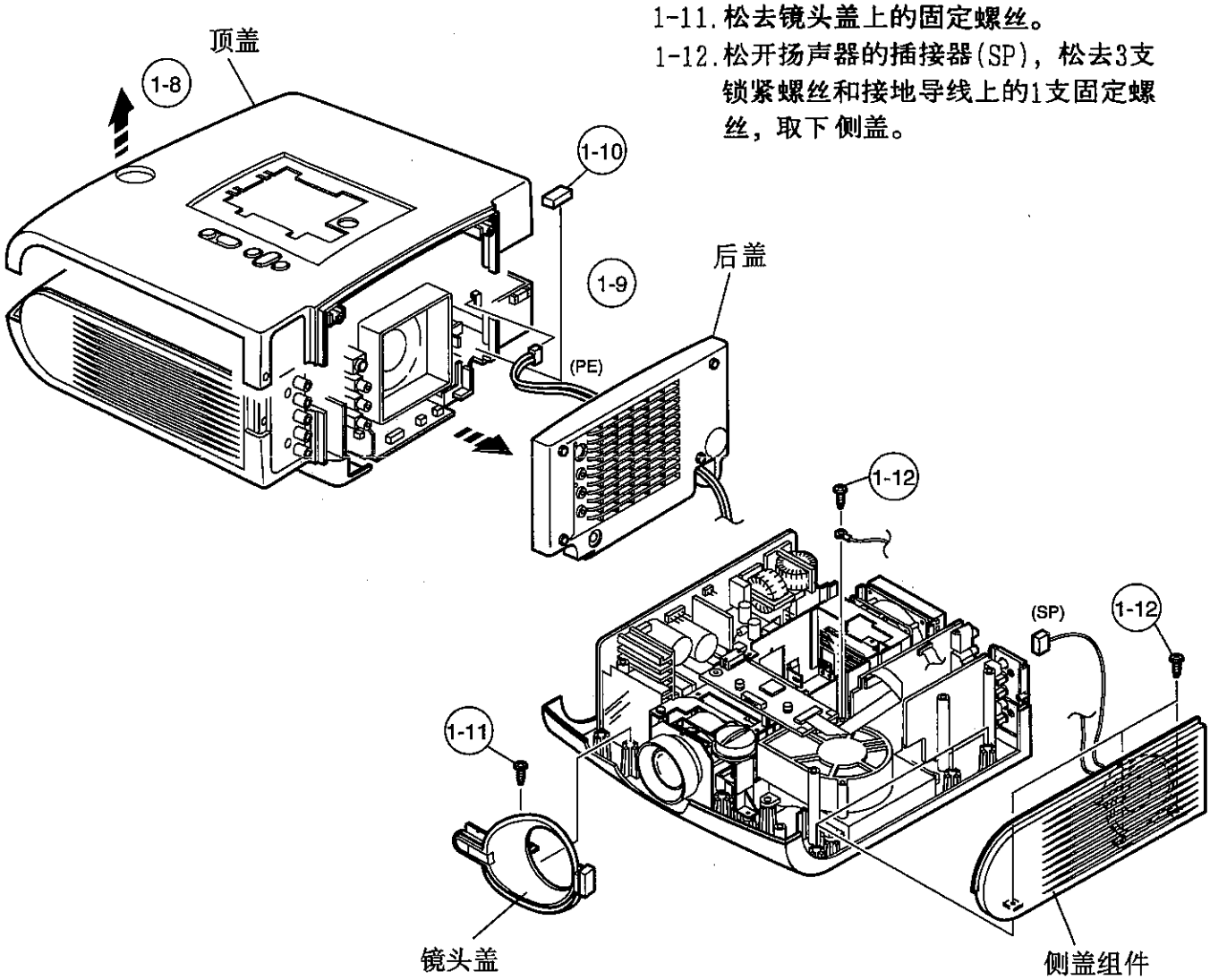
1-1.松去1支固定螺丝，取下灯室盖板。
1-2.松去灯泡及其灯室的两支锁紧螺丝(两支4mm螺丝)。
1-3.旋转镜头伸缩钮,让镜头完全缩进前盖的镜头孔内部。
1-4.松去后盖上的6支固定螺丝(3mm自攻螺丝:6支)。
1-5.松去副电路装置盖板上的1支M3自攻螺丝。



1-6.拆下空气滤清器盖板。
1-7.松去底板上的5支自攻螺丝。



1-8. 然后，提起顶盖，松开开关插接器(LL)以及操作键装置平盖(KE)，取下顶盖。
1-9. 从镇流电路装置上松开(穿过后盖的)AC电源引线的插接器(PE)，取下后盖。
1-10. 松去衬垫。
1-11. 松去镜头盖上的固定螺丝。
1-12. 松开扬声器的插接器(SP)，松去3支锁紧螺丝和接地导线上的1支固定螺丝，取下侧盖。



重新组装

1.将镜头盖和侧盖安装在底板上，分别旋紧与其相应的固定螺丝。
2.盖顶盖于底板之上。
3.旋紧用于副电路装置盖板的M3自攻螺丝。
4.将后盖压于顶盖与底板之间，并将其扣紧。
5.用6支3mm自攻螺丝固定后盖。
6.分别用自攻螺丝固定顶盖和底板。
7.插入灯室装置后，用两支4mm螺丝固定。
8.安装灯室装置盖板后，用螺丝固定。

2．印刷电路板的拆卸

2-1.按图中所示箭头方向抽出电源电路装置、镇流电路装置以及主电路装置，并松开各装置的插接器。

2-2.松去3支固定螺丝，揭开两张粘胶带，取下操作键装置。

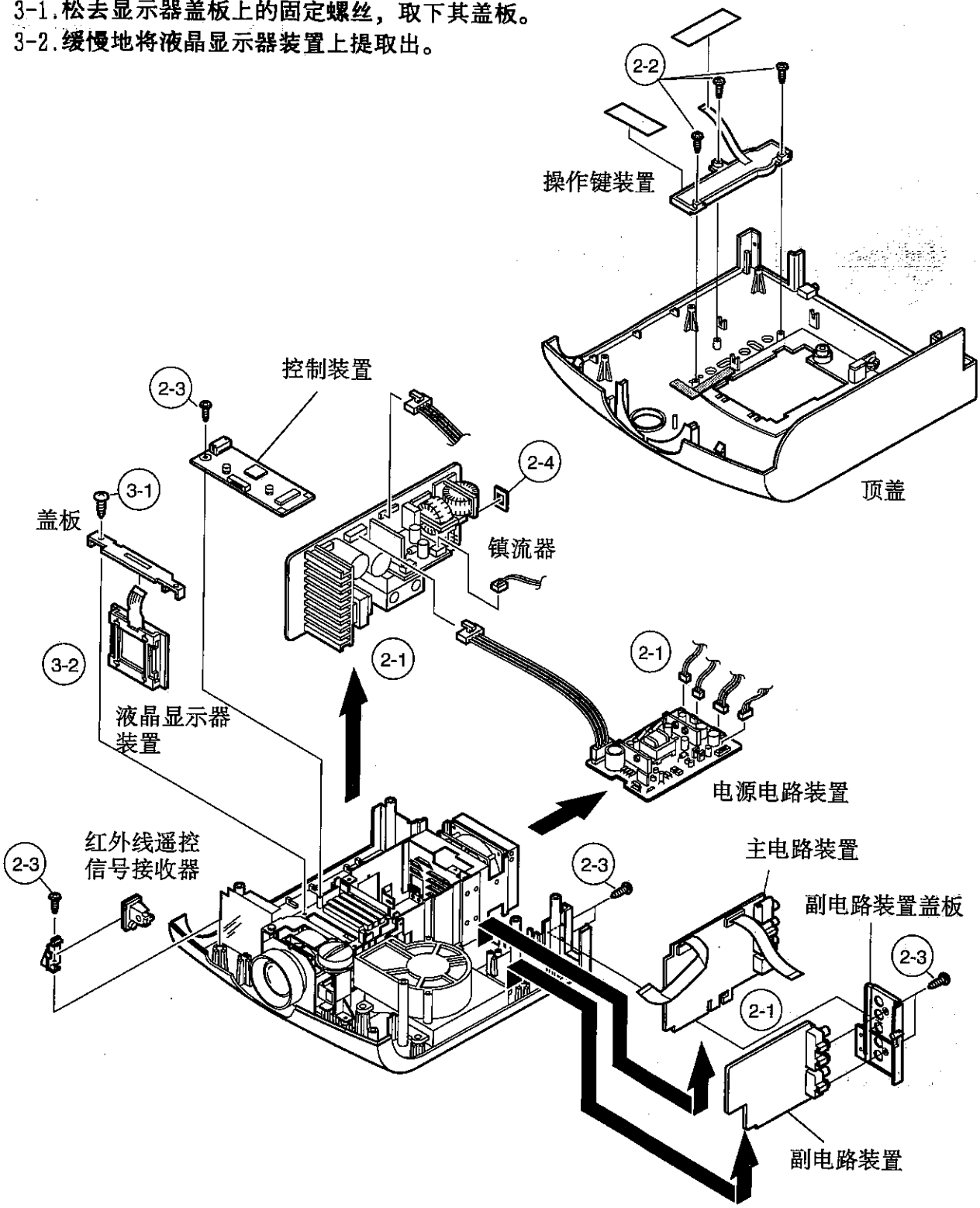
2-3.松去控制装置，遥控信号接收装置以及副电路装置上的各固定螺丝，并松开各装置的插接器。

2-4.拆下按钮盖。

3．液晶显示器装置的拆卸

3-1.松去显示器盖板上的固定螺丝，取下其盖板。

3-2.缓慢地将液晶显示器装置上提取出。

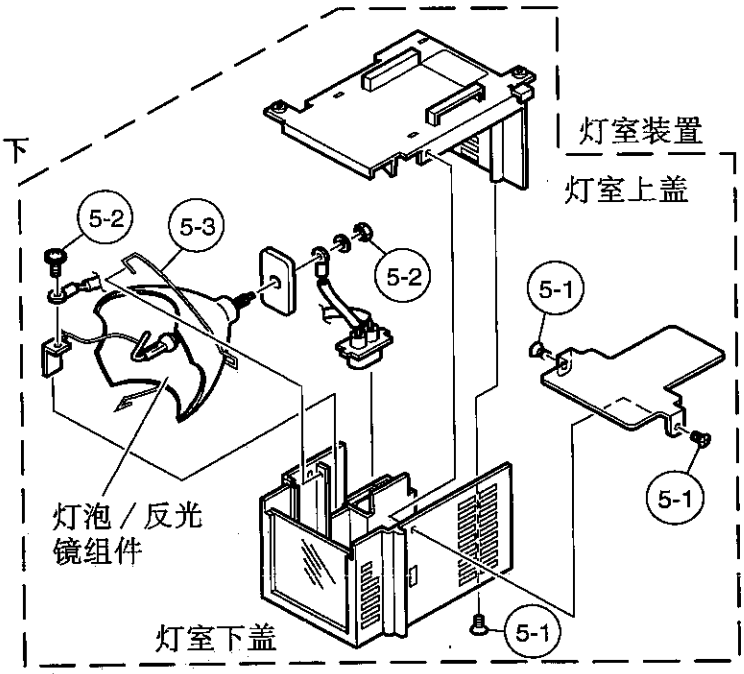


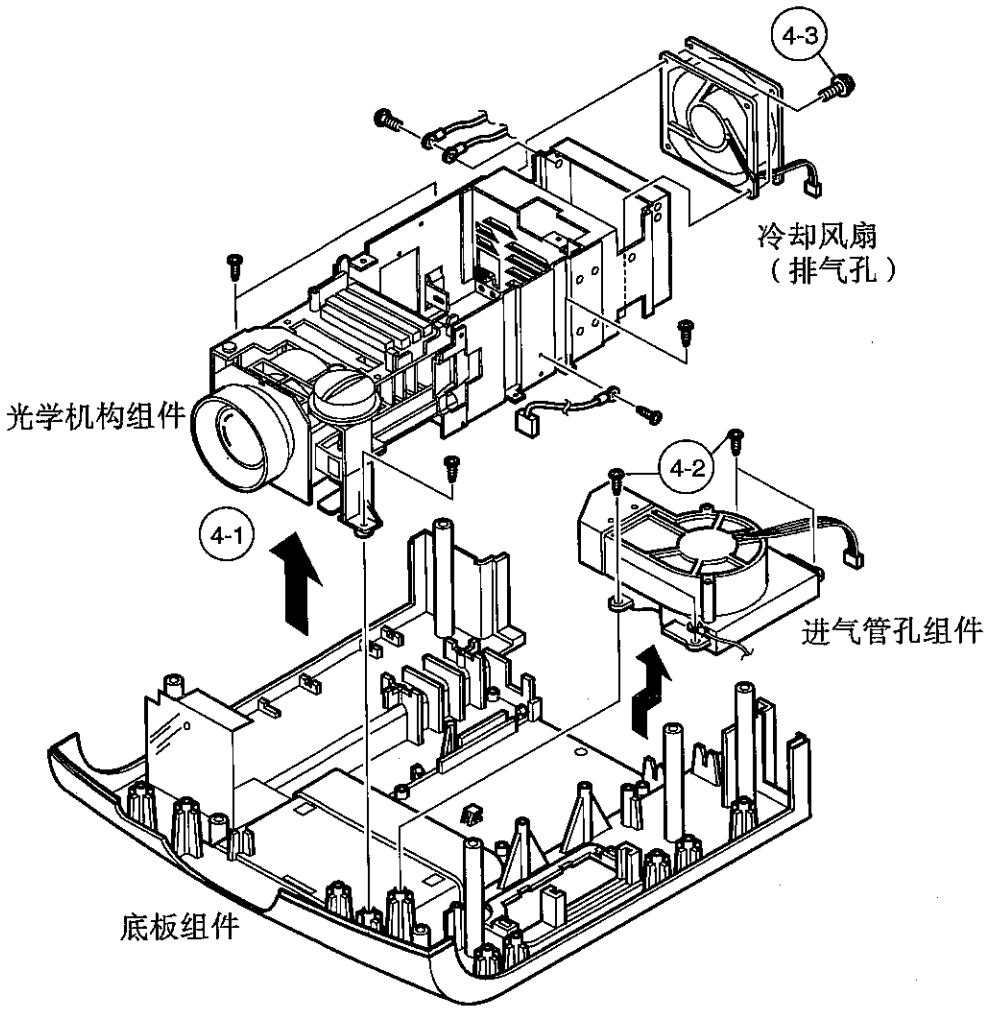
4．光学机构组件的拆卸

4-1.松去光学机构组件的4支固定螺丝，从底板上取下光学机构组件。
4-2.松去进气管孔组件的4支固定螺丝，从底板上取下进气管孔组件。
4-3.松去冷却风扇的两支固定螺丝。

5．灯泡的拆卸

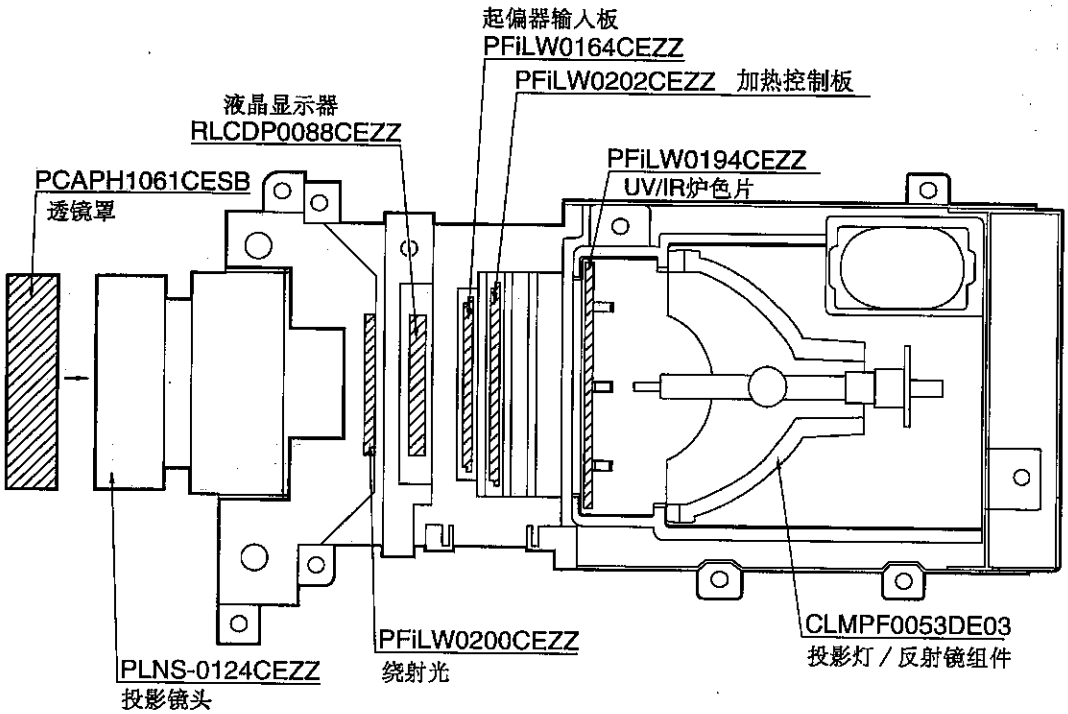
5-1.松去灯室上盖和下盖的3支锁紧螺丝。
5-2.松去灯座的锁紧螺丝及其螺帽。
5-3.松去灯室下盖下面的灯泡锁扣弹簧，取下灯泡/反光镜组件。





光学系统

投影装置

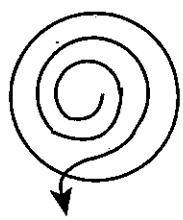


■镜头及反射镜的清擦

1.镜头的清擦

・清擦剂：

一般以酒精和乙酞的混合剂为宜。使用时，根据使用环境的温度条件，适当调节两者的混合浓度比。通常以用其混合液拂拭镜头表面后立即挥发，不留液迹为最佳。乙酞混合量越多，挥发越快。



・清擦方法：

用洗净、漂白的软棉布或用商店贩卖的镜头纸拂拭为宜。清擦方法是，一手握住镜头筒体，另一手的拇指与食指挟住蘸有清擦剂的软布或镜头纸，按右图所示要领从中心向外围，划圆圈似地拂拭镜头表面。

注意，清擦时不宜用力过度，以免损伤镜头表面保护涂层。

■ 灯泡总工作时间的调整

灯泡总工作时间到达1900或2000小时时，应按下列要求进行调整。

1.工作时间到达1900小时之后

打开电源开关，荧屏上就显示出“LAMP”的文字一分钟左右(呈黄色闪烁)，与其同时，LED指示灯呈现红色。

本投影机使用中到达1900小时时，与其同时，荧屏上显示出呈黄色的“LAMP”文字而开始点亮一分钟。

LED指示灯由绿色转为红色。

2.工作时间到达2000小时之后

打开电源开关，荧屏上就显示出“LAMP”的文字5分钟(呈红色闪烁)，与其同时，LED指示灯呈现红色。

经5分钟后，电源自动关闭，使投影机处于中断状态。

本投影机使用中到达2000小时时，与其同时，荧屏上显示出呈红色的“LAMP”文字而开始点亮5分钟。5分钟后，电源自动关闭，使投影机处于中断状态。(LED指示灯使用1900小时后，一直呈现红色点亮)。

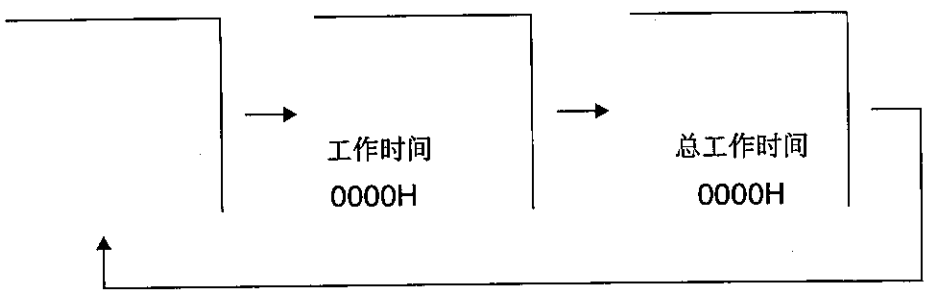
使用2000小时后，即使要打开电源开关，投影机还是保持关闭状态。

3.到达2000小时后，应按下列步骤进行工作。

将灯泡换新。同时触按投影机上的“VOLUME▼”键钮和“SELECT、ADJ▼”键钮，以打开主电源开关(位于投影机背面)。灯泡工作时间计数表回至零位置，然后打开投影机的电源开关，以便检查时间表示是否为“0000H”。

4.灯泡总工作时间的显示

“STATUS3”数据设定的变更如下：设PICTURE控制于0，设BRIGHT控制于最大，设COLOR控制于最小，设TINT控制于最小，设SHARPNESS控制于最大，然后触按SOUND DOWN键钮和ENTER键钮2秒钟以上，以便显示总工作时间于荧屏上。



调整输入功能

1.调整时所用键钮

副印刷电路板上:S2001

控制键钮:[ENTER](进入),[MENU](菜单),[SELECT、ADJ.▲](选择/调整),[SELECT/ADJ.▼](选择/调整),[VOLUME+](音量)

2.调整方法

触按S2001键以呼出调整输入设定状态

通过[SELECT/ADJ.▲]或[SELECT/ADJ.▼]键选出所需的主项目,触按[ENTER]键。再通过[SELECT/ADJ.▲]或[SELECT/ADJ.▼]键选出所需的副项目,触按[ENTER]键。[SELECT/ADJ.▲]和[SELECT/ADJ.▼]键均用于此项的调整。

每触按调整输入荧屏上的[ENTER]键,便一个一个地变化主项目中的副项目。(触按[VOLUME+]键,副项目就按相反顺序而变化)。

触按[MENU]键,于是上一次表示在荧屏上的主项目又出现于荧屏上。

再触按S2001键,调整输入状态便随之取消

主项目								
	影像1	影像2	影像3	影像4	设定	N.W	线路	测试
副项目的调整	水平中心 PAL制式水平中心 对比度 亮度 副红色 副绿色 副蓝色	副偏压 红色偏压 蓝色偏压 红色激励 蓝色激励 色调 彩色 图像彩色 S—彩色	伽马γ值1 伽马γ值2 自动增益控制 T—亮度	C-对比度 C-亮度 C-彩色 C-色调 C-水平中心 C-PAL制式水平中心	HL	红色 绿色 蓝色 N.W	自动 关机定时器 温度1 温度2 出厂时设定4	时间1 时间2

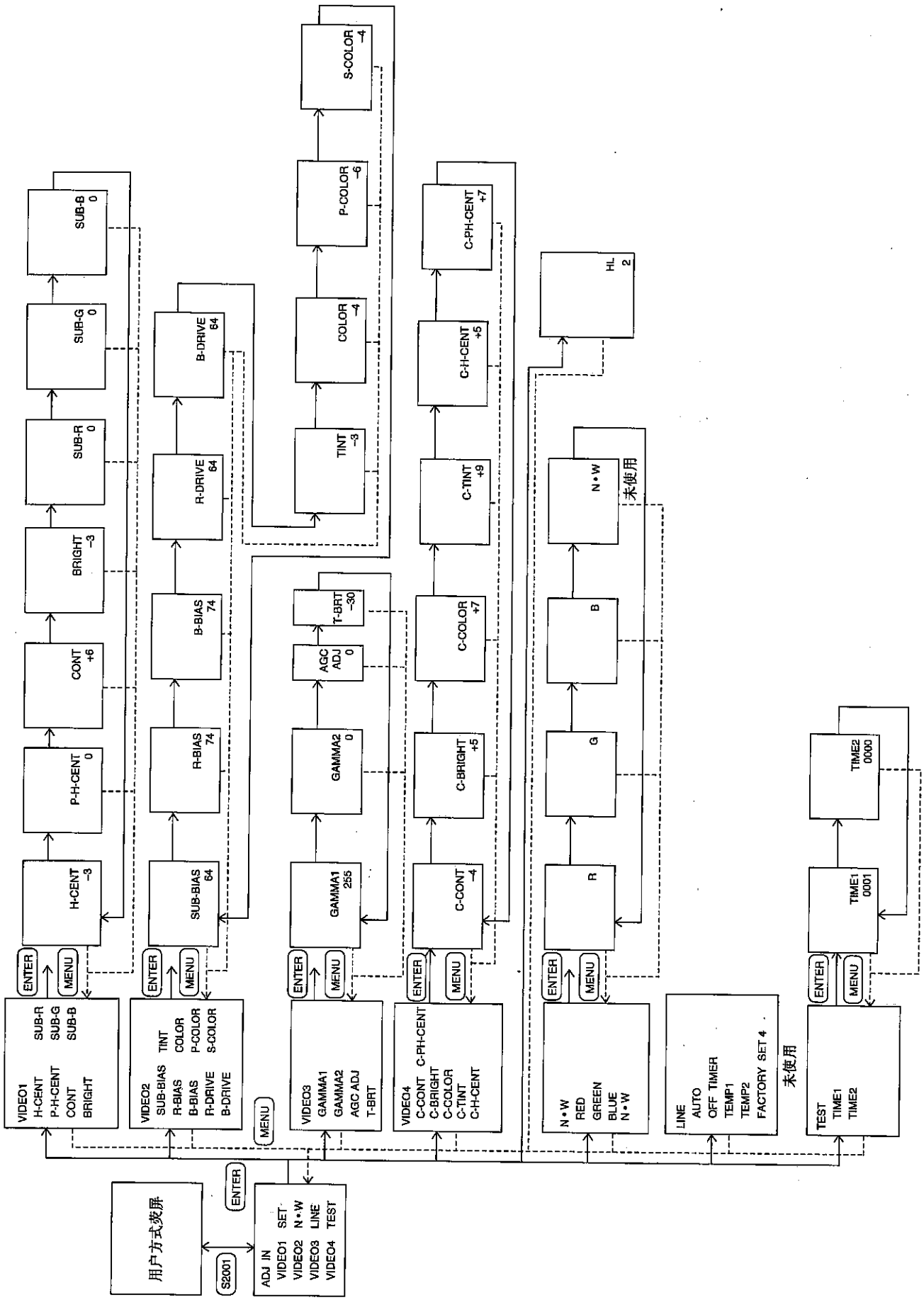
在此项不需要使用副项目中的“LINE”。

使用调整项目“N·W”时切勿输入信号。

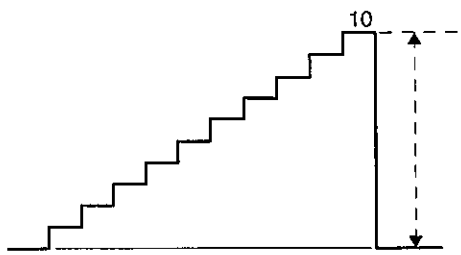
3.副项目的调整

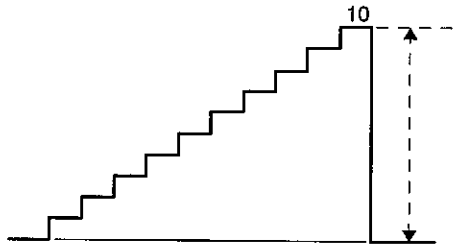
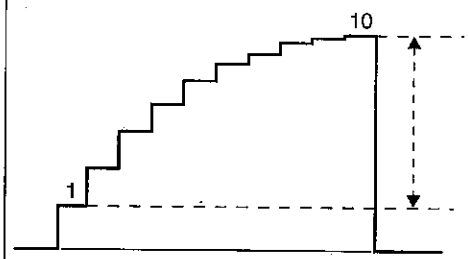
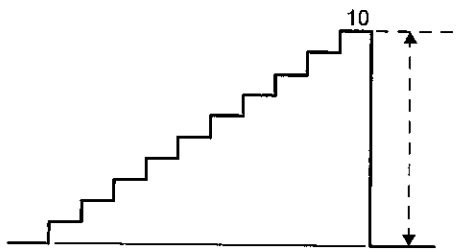
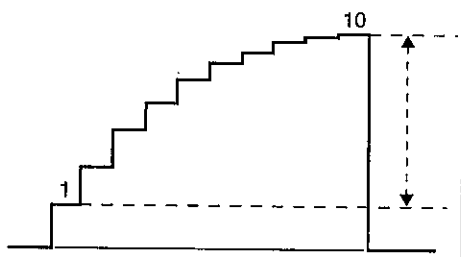
VIDEO 1	
H-CENT	NTSC制式水平位置调整
P-H-CENT	PAL制式水平位置调整
CONT	副对比度调整
BRIGHT	亮度调整
SUB-R	未使用，正好设定为0
SUB-G	未使用，正好设定为0
SUB-B	未使用，正好设定为0
VIDEO 2	
SUB-BIAS	副偏压调整
R-BIAS	白色平衡(红色)偏压调整
B-BIAS	白色平衡(蓝色)偏压调整
R-DRIVE	白色平衡(红色)激励调整
B-DRIVE	白色平衡(蓝色)激励调整
TINT	色调调整
COLOR	彩色信号电平的调整
P-COLOR	PAL制式彩色信号电平的调整
S-COLOR	SECAM制式彩色信号电平的调整
VIDEO 3	
GAMMA1	伽马γ值1调整
GAMMA2	伽马γ值2调整
AGC ADJ	自动增益控制
T-BRT	色度IC亮度调整
VIDEO 4	
C-CONT	来自其它装置输入信号的对比度调整
C-BRIGHT	来自其它装置输入信号的亮度调整
C-COLOR	来自其它装置输入信号的彩色信号电平调整
C-TINT	来自其它装置输入信号的色调调整
C-H-CENT	来自其它装置输入信号的NTSC制式水平位置调整
C-PH-CENT	来自其它装置输入信号的PAL制式水平位置调整
设定	
HL	温度检测电平设定测试
N•W(单色显示)	
RED	红色
GREEN	绿色
BLUE	蓝色
N•W	未使用
测试	
TIME1	总灯定时器的1小时增加设定
TIME2	按1899H、1999H、OH、1899H之顺序可设定总灯定时器

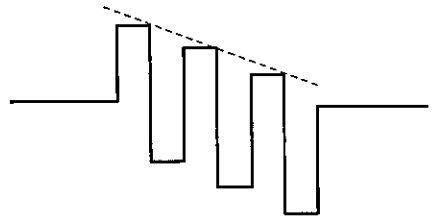
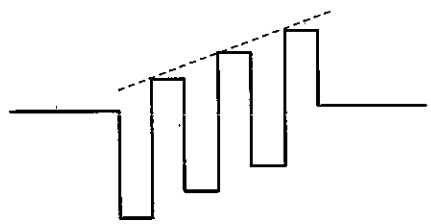
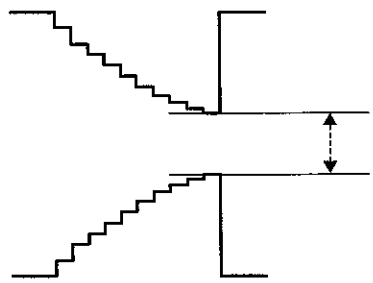
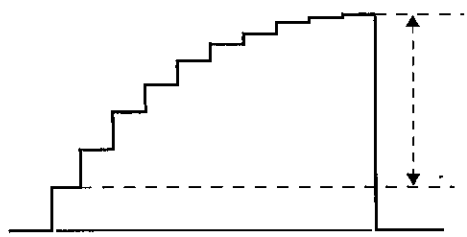
调整程序卒图

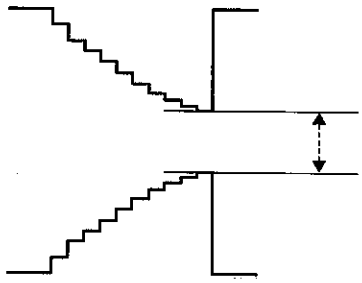
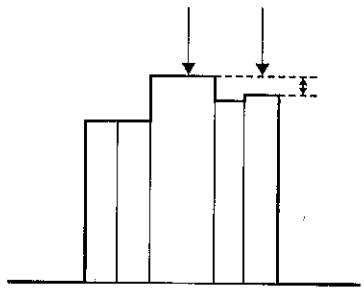
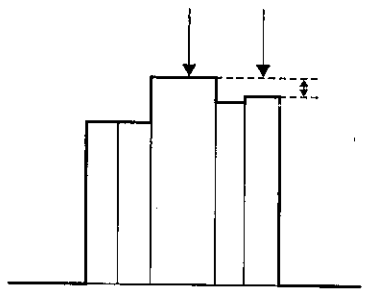

用户方式选屏
S2001
ENTER
ADJ IN
VIDEO1 SET
VIDEO2 N・W
VIDEO3 LINE
VIDEO4 TEST
MENU
VIDEO1 SUB-R SUB-G SUB-B
H-CENT P-H-CENT CONT BRIGHT
VIDEO2 TINT COLOR P-COLOR S-COLOR
SUB-BIAS R-BIAS B-BIAS R-DRIVE B-DRIVE
VIDEO3 GAMMA1 GAMMA2 AGC ADJ T-BRT
VIDEO4 C-CONT C-PH-CENT C-BRIGHT C-COLOR C-TINT C-H-CENT
N・W RED GREEN BLUE N・W
LINE AUTO OFF TIMER TEMP1 TEMP2 FACTORY SET 4
TEST TIME1 TIME2
未使用
H-CENT -3
P-H-CENT 0
CONT +6
BRIGHT -3
SUB-R 0
SUB-G 0
SUB-B 0
SUB-BIAS 64
R-BIAS 74
B-BIAS 74
R-DRIVE 64
B-DRIVE 64
GAMMA1 255
GAMMA2 0
AGC ADJ 0
T-BRT -30
TINT -3
COLOR -4
P-COLOR -6
S-COLOR -4
C-CONT -4
C-BRIGHT +5
C-COLOR +7
C-TINT +9
C-H-CENT +5
C-PH-CENT +7
R
G
B
N・W
未使用
HL 2
TIME1 0001
TIME2 0000

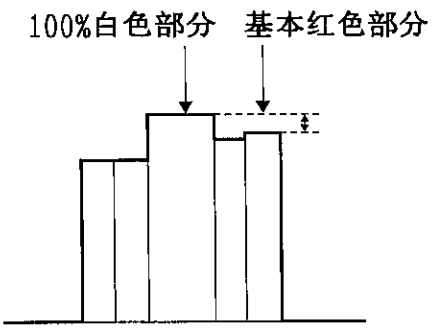
电路调整

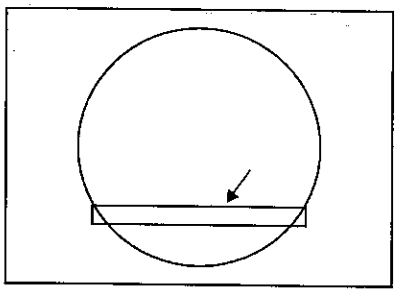
序号	调整项目	调整条件	调整方法
1	NTSC制式自激频率(R1616)	1.接收NTSC制式单像管图案信号。 2.触按S801开关而进行调整。	·旋转R1616旋钮，直至出现符合规定要求的图像为止。
2	PAL制式自激频率(R1602)	1.接收PAL制式单像管图案信号。 2.触按S801开关而进行调整。	·旋转R1602旋钮，直至出现符号规定要求的图像为止。
3	NTSC制式水平中心(DAC)	1.接收NTSC制式单像管图案信号。 2.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 1 ·副项目:H-CENT	·触按▲或▼键，使左右的过扫描达至相同程度。 过扫描:91～97%
4	PAL制式水平中心(DAC)	1.接收PAL制式单像管图案信号。 2.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 1 ·副项目:P-H-CENT	·触按▲或▼键，使左右的过扫描达至相同程度。 过扫描:91～97%
5	对比度(DAC) (伽马γ值校正器关闭)	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(2)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:SUB-BIAS 4.触按▲或▼键，使波形调至正常状态。 5.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 1 ·副项目:SUB-R SUB-G SUB-B 此时，应确认所有副项目的设定值为0。 6.调节R861,以获得最佳增益控制。 7.最后选择下记项目。 ·主项目:VIDEO 1 ·副项目:CONT	·触按▲或▼键，使10等级灰度信号电平与熄灭脉冲电平之间的幅值达至6.0±0.15Vp-p的规定要求。 

序号	调整项目	调整条件	调整方法
6	自动增益控制 R861 (伽马γ值 校正器关闭)	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(2)与GND(接地端)之间。 3.选择下记项目。 ·主项目:VIDEO 1 ·副项目:CONT	·旋转R861旋钮，使100%白色信号电平与熄灭脉冲电平之间的幅值达至4.8±0.05Vp-p的规定要求。 
7	亮度 (DAC) (伽马γ值 校正器打开)	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(2)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 1 ·副项目:BRIGHT	·触按▲或▼键，使10等级与1等级灰度信号间的电平差调至2.0±0.05Vp-p的规定要求。 
8	合成对比度 (DAC) (伽马γ值 校正器关闭)	1.向合成器端子输入NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(2)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 4 ·副项目:C-CONT	·触按▲或▼键，使100%白色信号电平与熄灭脉冲电平之间的幅值调至4.8±0.05Vp-p的规格要求。 
9	合成亮度 (DAC) (伽马γ值 校正器打开)	1.向合成器端子输入NTSC制式10等级灰度信号。 2.接双线示波器于P1402引脚(2)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 4 ·副项目:C-BRIGHT	·触按▲或▼键，使10等级与1等级灰度信号间的电平差调至2.0±0.05Vp-p的规定要求。 

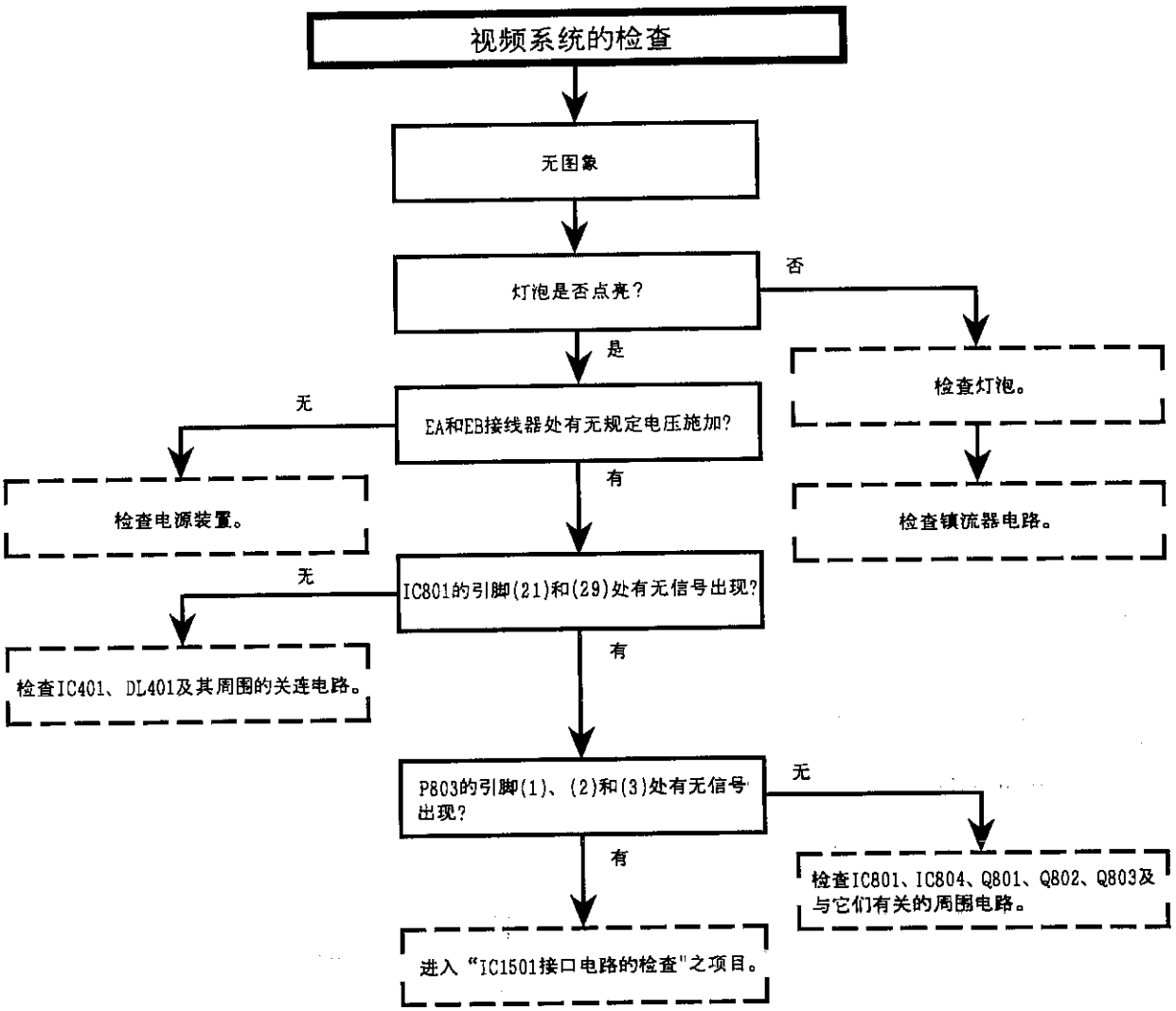
序号	调整项目	调整条件	调整方法
10	色调 (DAC)	1.接收NTSC制式半彩条信号。 2.触按S2001开关以呼出ADJ调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:TINT 3.接双线示波器于P803引脚(5)与GND(接地端)之间。	·触按▲或▼键，使蓝色亮度信号波形呈直线向下的规定要求。 
11	合成色调 (DAC)	1.接收NTSC制式半彩条信号。 2.触按S2001开关以呼出ADJ调整状态，然后选择下记项目。 ·主项目:VIDEO 4 ·副项目:C-TINT 3.接双线示波器于P803引脚(3)与GND(接地端)之间。	·触按▲或▼键，使蓝色亮度信号波形呈直线向下的规定要求。 
12	副偏压 (DAC) (伽马γ值校正器打开)	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(2)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:SUB-BIAS	·触按▲或▼键，使上部白色信号电平与下部白色信号电平间的幅值达至3.0±0.05 Vp-p的规定要求。 
13	红色激励 蓝色激励	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(3)(红色)、引脚(1)(蓝色)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:R-DRIVE B-DRIVE	·触按▲或▼键，使10等级与1等级灰度信号间的电平差调至2.0±0.05Vp-p的规定要求。 

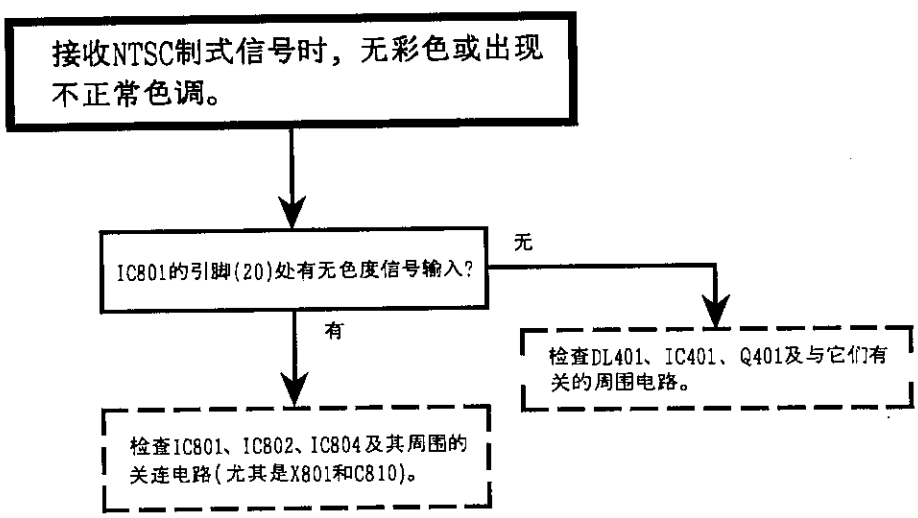
序号	调整项目	调整条件	调整方法
14	红色偏压 蓝色偏压	1.接收NTSC制式10等级灰度信号。 2.接双线示波器于P1401引脚(3)(红色)、引脚(1)(蓝色)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:R-BIAS B-BIAS	·触按▲或▼键，使上部白色信号与下部白色信号间的电平差调至3.0±0.05Vp-p的规定要求。 
15	NTSC制式彩色(DAC) (伽马γ值校正器打开)	1.接收NTSC制式半彩条信号。 2.接双线示波器于P1401引脚(3)与GND(接地端之间)。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:COLOR	·触按▲或▼键，使基本红色部分与100%白色部分间的电平差调至0±0.05Vp-p的规定要求。 100%白色部分　基本红色部分 
16	PAL制式彩色(DAC) (伽马γ值校正器打开)	1.接收PAL制式半彩条信号。 2.接双线示波器于P1401引脚(3)与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:P-COLOR	·触按▲或▼键，使基本红色部分与100%白色部分间的电平差调至0.10±0.05Vp-p的规定要求。 100%白色部分　基本红色部分 

序号	调整项目	调整条件	调整方法
17	SECAM制式彩色 (DAC) (伽马γ值 校正器打开)	1.接收SECAM制式半彩条信号。 2.接双线示波器于P1401引脚(3) 与GND(接地端)之间。 3.触按S2001开关以呼出ADJ IN 调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:S-COLOR	·触按▲或▼键，使红色部分与100%白色部分间的电平差调至0.10±0.05Vp-p的规定要求。 
18	合成彩色 (DAC)	1.向合成器端子输入NTSC制 式半彩条信号。 2.触按S2001开关以呼出ADJ IN 调整状态，然后选择下记项目。 ·主项目:VIDEO 4 ·副项目:C-COLOR	·检查所设定的数值是否为12。
19	计频器偏压 (R1402)	1.接收NTSC制式单像管图案信号。	·调节R1402，使对比度达至最佳程度。
20	白色平衡 (DAC)	1.接收NTSC制式单像管图案信号。 2.触按S2001开关以呼出ADJ IN 调整状态，然后选择下记项目。 ·主项目:VIDEO 2 ·副项目:R-BIAS B-BIAS	·触按▲或▼键，边观察边调节白色平衡，直至到达极佳位置为止。

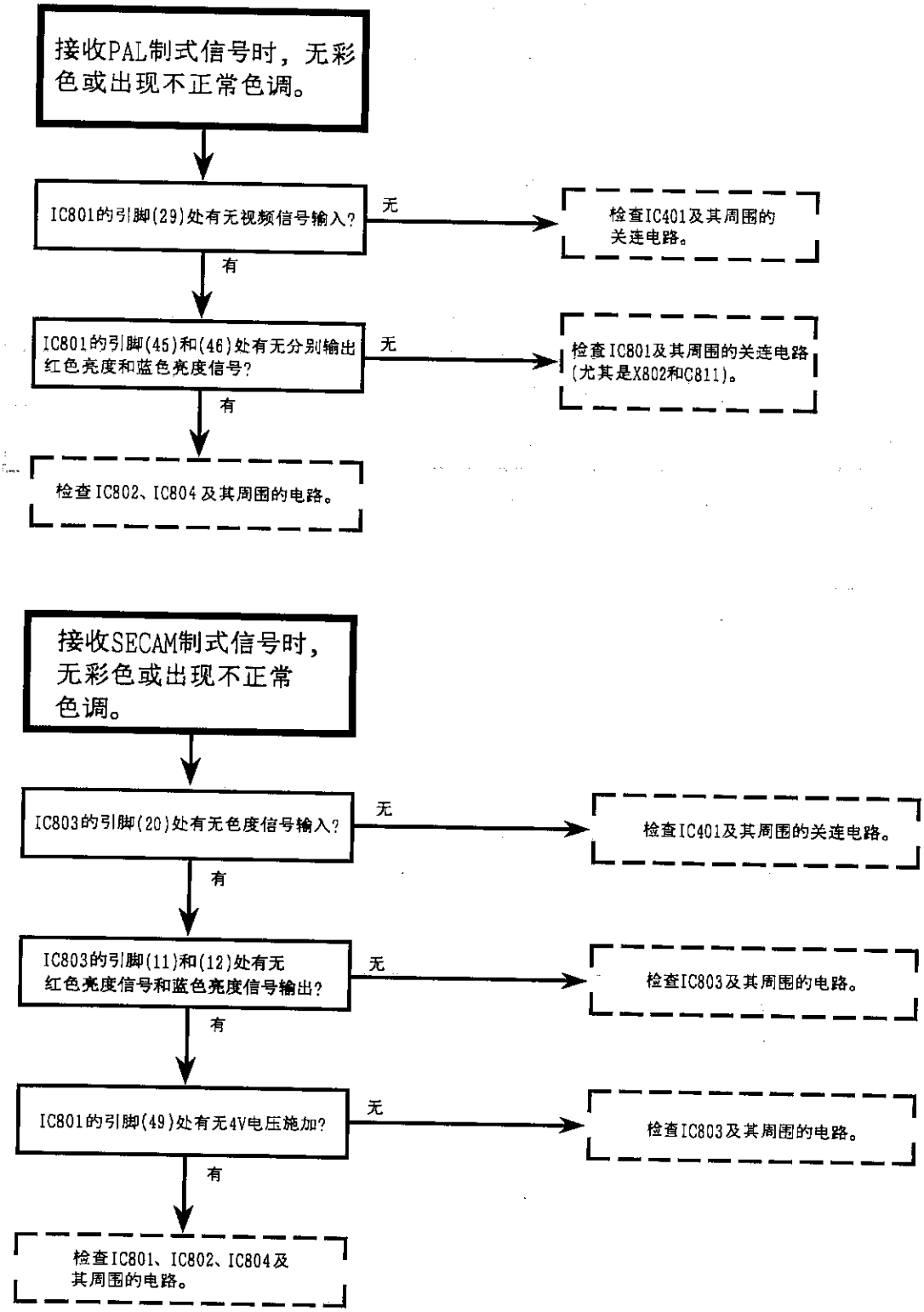
序号	调整项目	调整条件	调整方法
21	在屏表示 位置的检查 (L2003)	1.接收NTSC制式单像管图案信号。 2.触按音量增加/减少键，在荧屏上显示音量表示线条。	・旋转L2003旋钮，使音量表示线条移至荧屏的中心位置。 
22	温度传感器的设定	1.触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ・主项目:SET ・副项目:HL	・检查所设定的数值是否为2。
23	合成水平中心（NTSC制式）（DAC）	1. 接收NTSC制式单像管图案信号。 2. 触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ・主项目：VIDEO4 ・副项目：C-H-CENT	・触按▲或▼键，使左右的过扫描达至相同程度。 过扫描：91～97％
24	合成水平中心(PAL制式)(DAC)	1. 接收PAL制式单像管图案信号。 2. 触按S2001开关以呼出ADJ IN调整状态，然后选择下记项目。 ・主项目：VIDEO4 ・副项目：C-PH-CENT	・触按▲或▼键，使左右的过扫描达至相同程度。 过扫描：91～97％

故障检修表

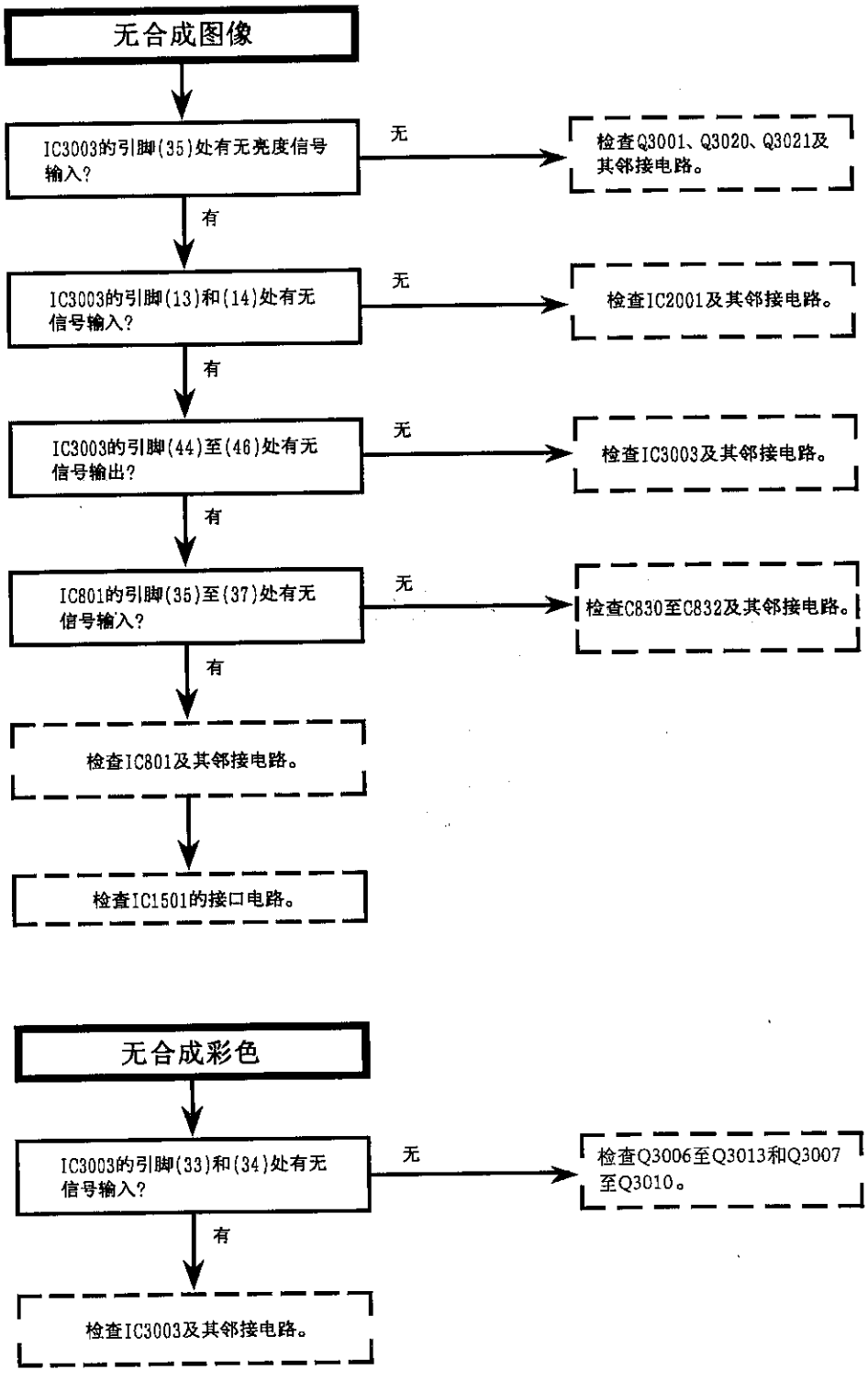

视频系统的检查
无图象
灯泡是否点亮?
否
是
检查灯泡。
检查镇流器电路。
无
EA和EB接线器处有无规定电压施加?
有
检查电源装置。
无
IC801的引脚(21)和(29)处有无信号出现?
有
检查IC401、DL401及其周围的关连电路。
P803的引脚(1)、(2)和(3)处有无信号出现?
无
有
检查IC801、IC804、Q801、Q802、Q803及与它们有关的周围电路。
进入"IC1501接口电路的检查"之项目。


接收NTSC制式信号时，无彩色或出现不正常色调。
IC801的引脚(20)处有无色度信号输入?
无
有
检查DL401、IC401、Q401及与它们有关的周围电路。
检查IC801、IC802、IC804及其周围的关连电路(尤其是X801和C810)。

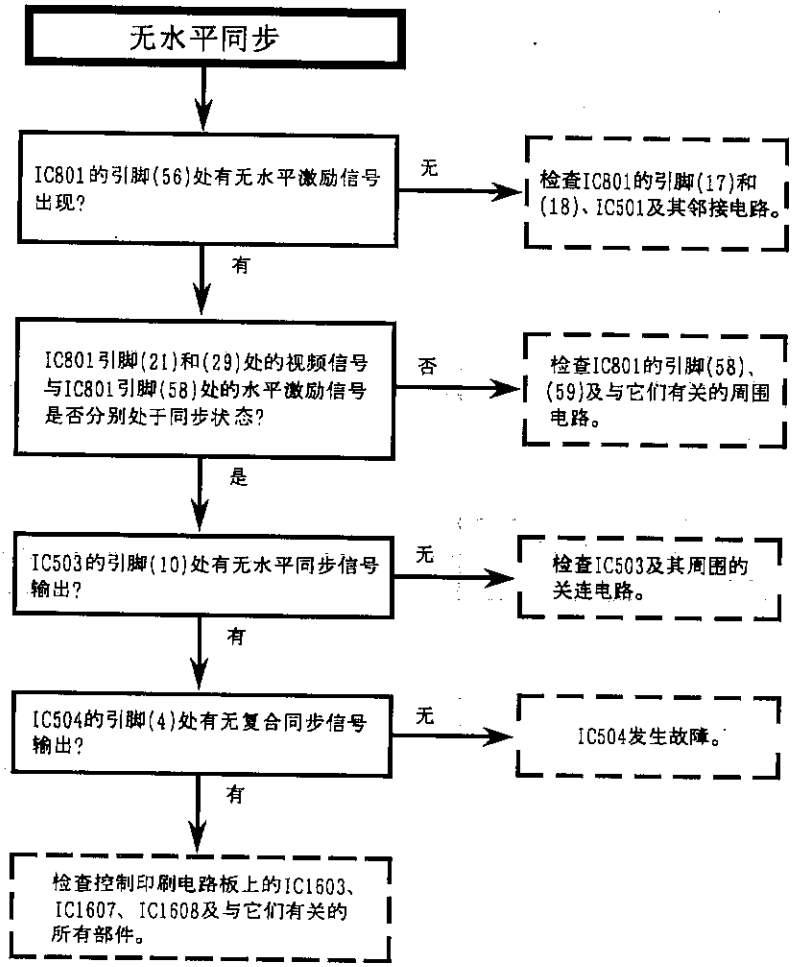
故障检修表（接上页）

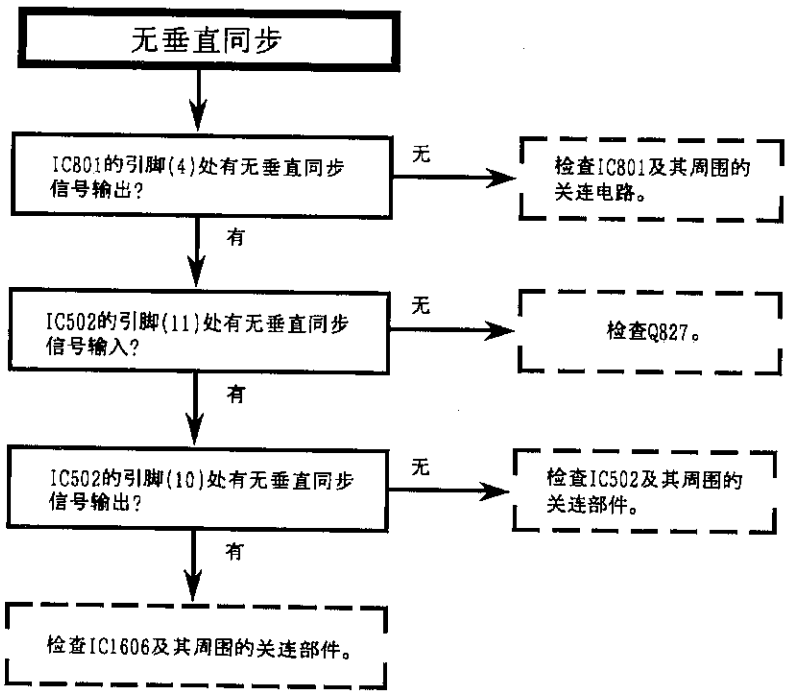

接收PAL制式信号时，无彩色或出现不正常色调。
IC801的引脚(29)处有无视频信号输入?
无
检查IC401及其周围的关连电路。
有
IC801的引脚(45)和(46)处有无分别输出红色亮度和蓝色亮度信号?
无
检查IC801及其周围的关连电路(尤其是X802和C811)。
有
检查IC802、IC804及其周围的电路。
接收SECAM制式信号时，无彩色或出现不正常色调。
IC803的引脚(20)处有无色度信号输入?
无
检查IC401及其周围的关连电路。
有
IC803的引脚(11)和(12)处有无红色亮度信号和蓝色亮度信号输出?
无
检查IC803及其周围的电路。
有
IC801的引脚(49)处有无4V电压施加?
无
检查IC803及其周围的电路。
有
检查IC801、IC802、IC804及其周围的电路。

故障检修表（接上页）

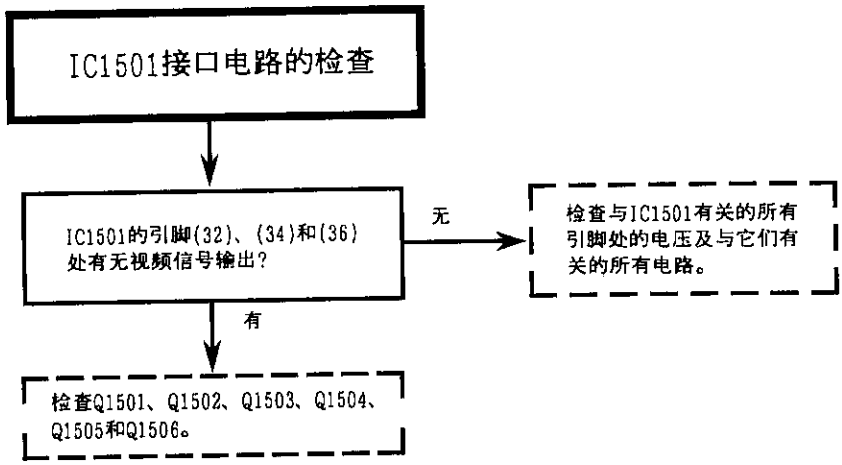

无合成图像
IC3003的引脚(35)处有无亮度信号输入?
无
检查Q3001、Q3020、Q3021及其邻接电路。
有
IC3003的引脚(13)和(14)处有无信号输入?
无
检查IC2001及其邻接电路。
有
IC3003的引脚(44)至(46)处有无信号输出?
无
检查IC3003及其邻接电路。
有
IC801的引脚(35)至(37)处有无信号输入?
无
检查C830至C832及其邻接电路。
有
检查IC801及其邻接电路。
检查IC1501的接口电路。
无合成彩色
IC3003的引脚(33)和(34)处有无信号输入?
无
检查Q3006至Q3013和Q3007至Q3010。
有
检查IC3003及其邻接电路。

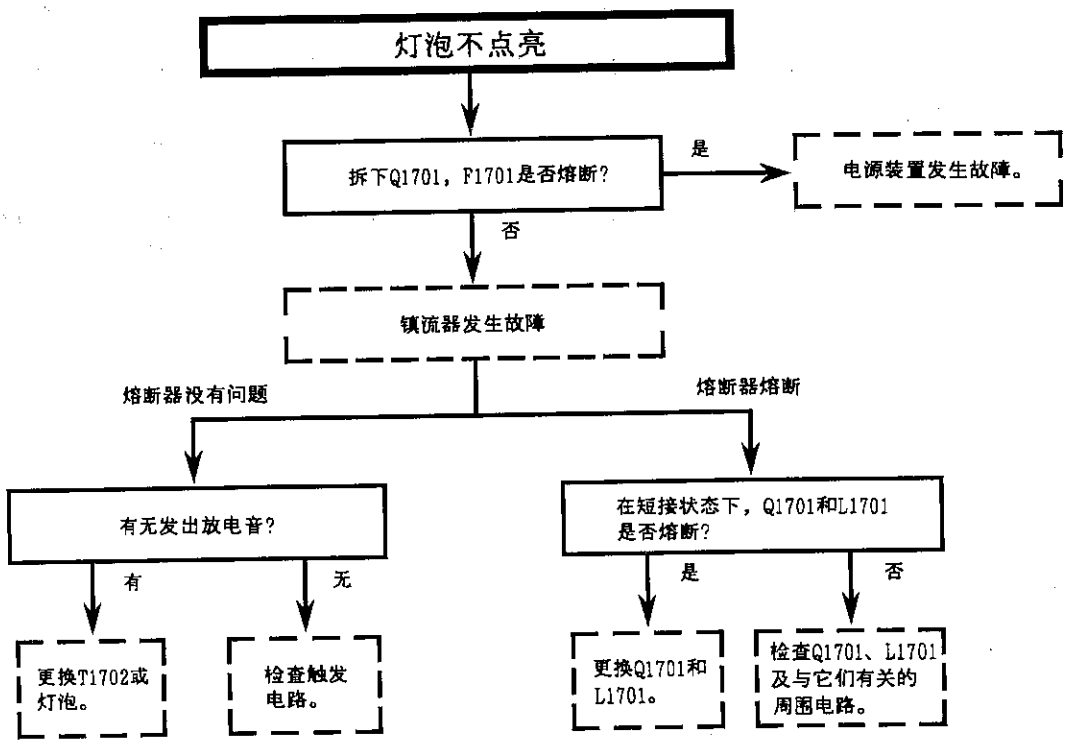
故障检修表（接上页）


无水平同步
IC801的引脚(56)处有无水平激励信号出现?
无
检查IC801的引脚(17)和(18)、IC501及其邻接电路。
有
IC801引脚(21)和(29)处的视频信号与IC801引脚(58)处的水平激励信号是否分别处于同步状态?
否
检查IC801的引脚(58)、(59)及与它们有关的周围电路。
是
IC503的引脚(10)处有无水平同步信号输出?
无
检查IC503及其周围的关连电路。
有
IC504的引脚(4)处有无复合同步信号输出?
无
IC504发生故障。
有
检查控制印刷电路板上的IC1603、IC1607、IC1608及与它们有关的所有部件。

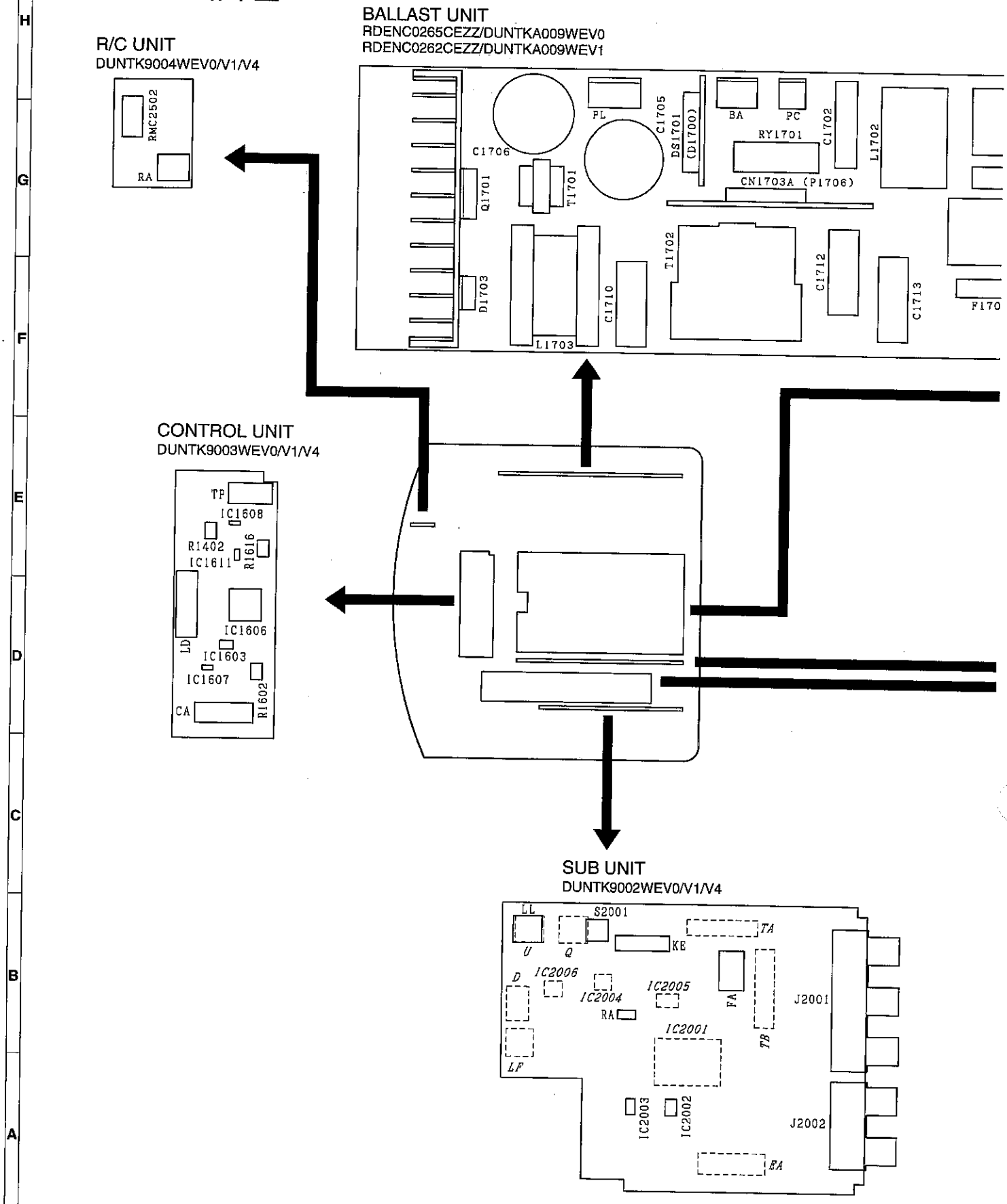

无垂直同步
IC801的引脚(4)处有无垂直同步信号输出?
无
检查IC801及其周围的关连电路。
有
IC502的引脚(11)处有无垂直同步信号输入?
无
检查Q827。
有
IC502的引脚(10)处有无垂直同步信号输出?
无
检查IC502及其周围的关连部件。
有
检查IC1606及其周围的关连部件。

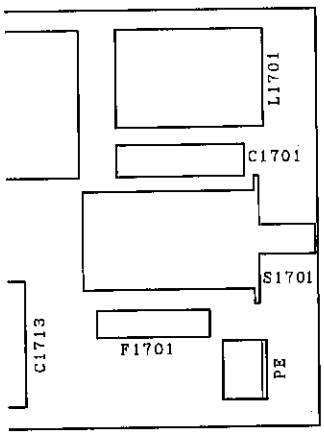
故障检修表（接上页）


IC1501接口电路的检查
IC1501的引脚(32)、(34)和(36)处有无视频信号输出?
无
检查与IC1501有关的所有引脚处的电压及与它们有关的所有电路。
有
检查Q1501、Q1502、Q1503、Q1504、Q1505和Q1506。

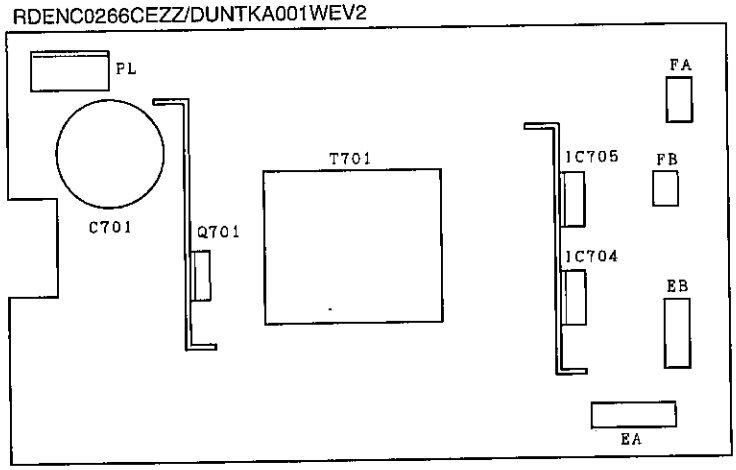

灯泡不点亮
拆下Q1701，F1701是否熔断?
是
电源装置发生故障。
否
镇流器发生故障
熔断器没有问题
熔断器熔断
有无发出放电音?
有
无
更换T1702或灯泡。
检查触发电路。
在短接状态下，Q1701和L1701是否熔断?
是
否
更换Q1701和L1701。
检查Q1701、L1701及与它们有关的周围电路。

CHASSIS LAYOUT / CHASSIS-ANORDNUNG
机芯底盘电路布置

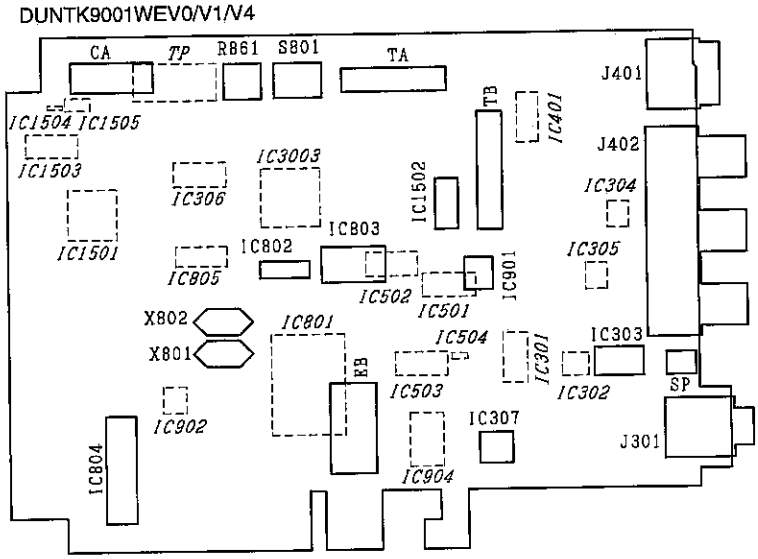




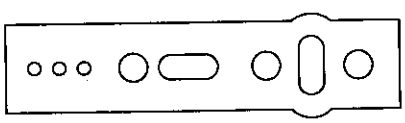
POWER UNIT
RDENC0266CEZZ/DUNTKA001WEV2



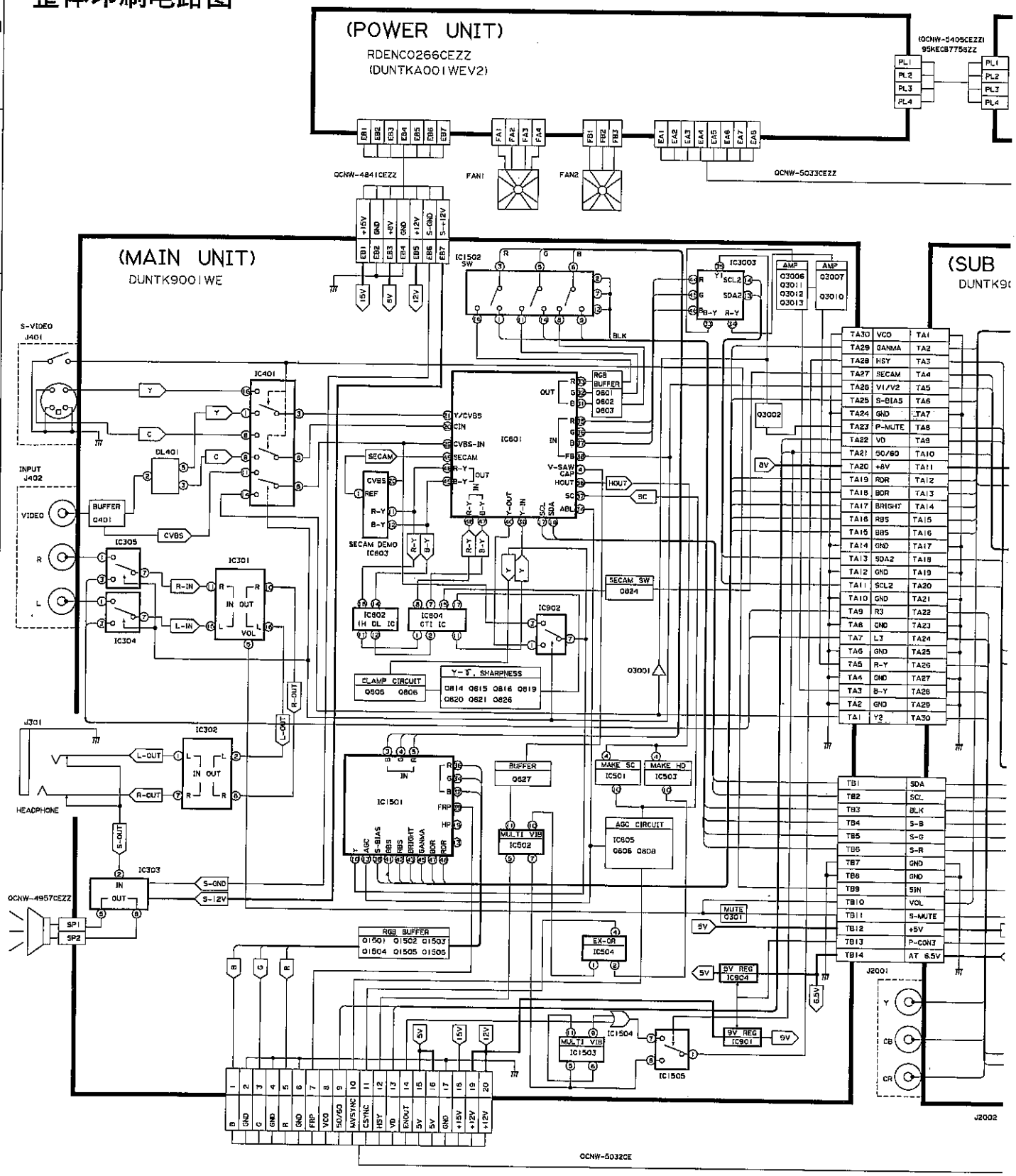
MAIN UNIT
DUNTK9001WEV0/V1/V4

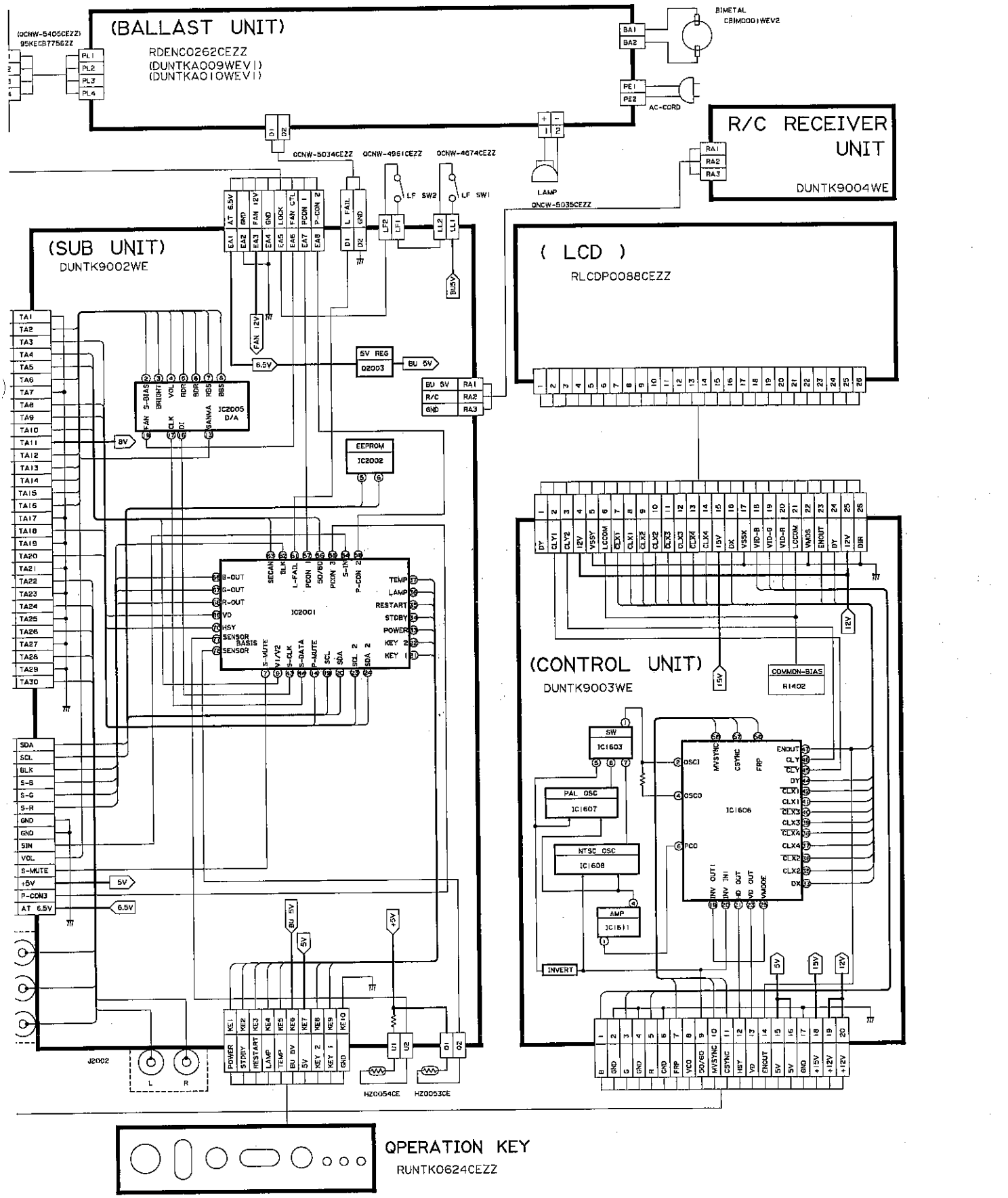


OPERATION KEY UNIT
RUNTK0624CEZZ



OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN
整体印刷电路图





10	11	12	13	14	15	16	17	18	19

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   - Ⓒ : Solid
   - Ⓦ : Cement
   - Ⓢ : Oxide Film
   - Ⓣ : Special
   - Ⓝ : Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   - (ML): Mylar
   - (TA): Tantalum
   - (PF): Polypro Film
   - (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠"(▒▒▒)ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 220V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/16W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   - Ⓒ : Fest
   - Ⓦ : Zement
   - Ⓢ : Oxidfilm
   - Ⓣ : Spezial
   - N : Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   - (ML): Mylar
   - (TA): Tantal
   - (PF): Polyprofilm
   - (ST): Styrol

ACHTUNG:
bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

SICHERHEITSANMERKUNGEN:

1. ***VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.***
2. ***DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.***

WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "⚠"(▒▒▒)BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

电 路 原 理 图 的 说 明

电压测定条件：

1. 各测试点上的电压值是用AC220V电源电压来测定的。各种信号由维修专用的彩条信号发生器产生的，各种有关电压值是用20千欧姆/伏测试仪测定的。

波形测定条件：

1. 各测试点上的波形是用AC220V电源电压观察到的。各种信号由维修专用的彩条信号发生器产生的。

电阻与电容器的表示：

电阻

1. 电阻欧姆“Ω”单位予以略记。（K＝kΩ＝1000Ω，M＝兆Ω）。
2. 除特别说明者外，所有的电阻为±5%。（J＝±5%，F＝±1%，D＝±0.5%）。
3. 除特别说明者外，所有的电阻功率为1/16W。
4. 除特别说明者外，所有的电阻为碳质。
   - Ⓒ ：固体电阻
   - Ⓦ ：陶瓷电阻
   - Ⓢ ：氧化膜电阻
   - Ⓣ ：特殊电阻
   - Ⓝ ：金属涂层电阻

电容器

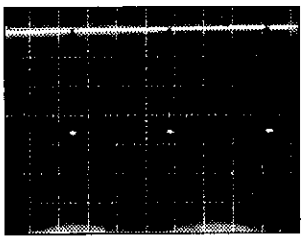
1. 除特别说明者外，所有的电容器单位为微法(μF)。（P＝微微法＝μμF）。
2. 除特别说明者外，所有的电容器为50伏。
3. 除特别说明者外，所有的电容器为陶瓷质。
   - (ML)：聚酯薄膜电容器
   - (TA)：钽质电容器
   - (PF)：聚乙烯薄膜电容器
   - (ST)：聚苯乙烯电容器

注意：
这里的电路原理图均为最初设计原理图，与您的机器的电路原理图可能有不同之处。

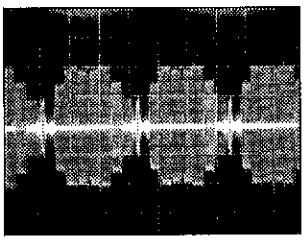
安全使用注意事项：
1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：
标有“⚠”（ ▒▒▒ ）的部件对于投影机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

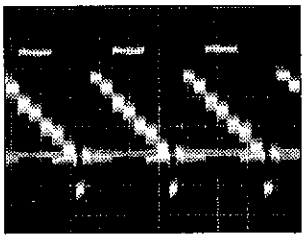
WAVEFORMS / WELLENFORMEN 波形图



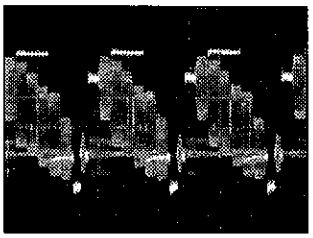
① IC801 pin 4
1V/div, 5msec/div



② IC801 pin 20
0.1V/div, 20µsec/div

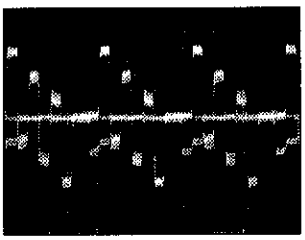


③ IC801 pin 21
0.2V/div, 20µsec/div

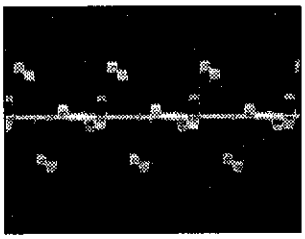


④ IC801 pin 29
0.2V/div, 20µsec/div

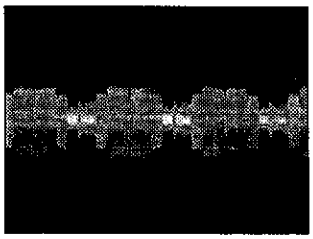
⑤ IC801 pin 58
0.2V/div, 20µsec/div



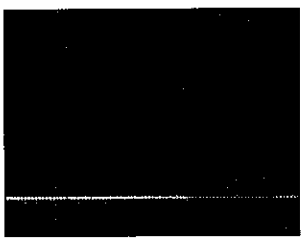
⑥ IC801 pin 45
0.2V/div, 20µsec/div



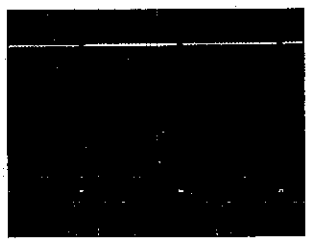
⑦ IC801 pin 46
0.2V/div, 20µsec/div



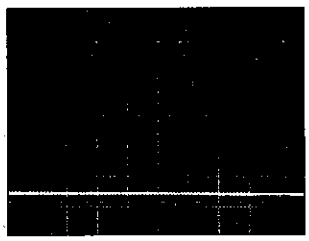
⑧ IC803 pin 20
50mV/div, 20µsec/div



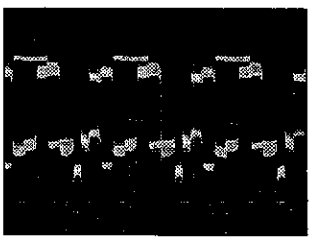
⑨ IC502 pin 10
1V/div, 5msec/div



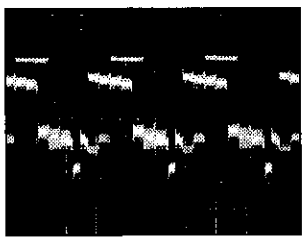
⑩ IC502 pin 11
1V/div, 5msec/div



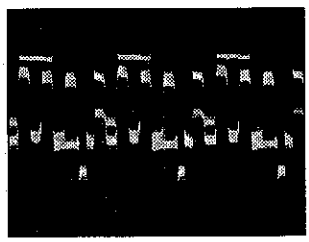
⑪ IC504 pin 4
1V/div, 5msec/div



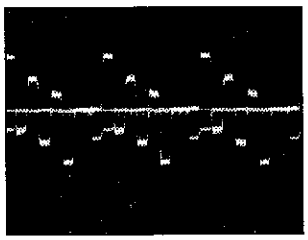
⑫ P803 pin 1
0.2V/div, 20µsec/div



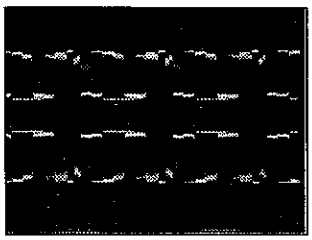
⑬ P803 pin 2
0.2V/div, 20µsec/div



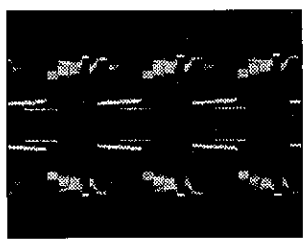
⑭ P803 pin 3
0.2V/div, 20µsec/div



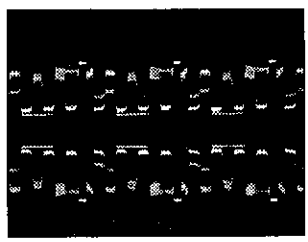
⑮ P803 pin 5
0.5V/div, 20µsec/div



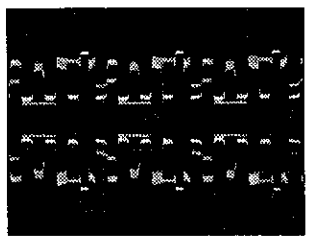
⑯ IC1501 pin 32
2V/div, 20µsec/div



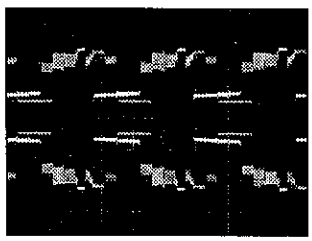
⑰ IC1501 pin 34
2V/div, 20µsec/div



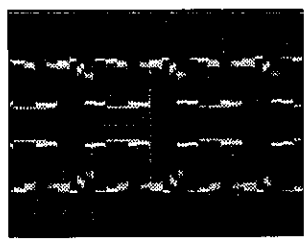
⑱ IC1501 pin 36
2V/div, 20µsec/div



⑲ P1401 pin 1
2V/div, 20µsec/div

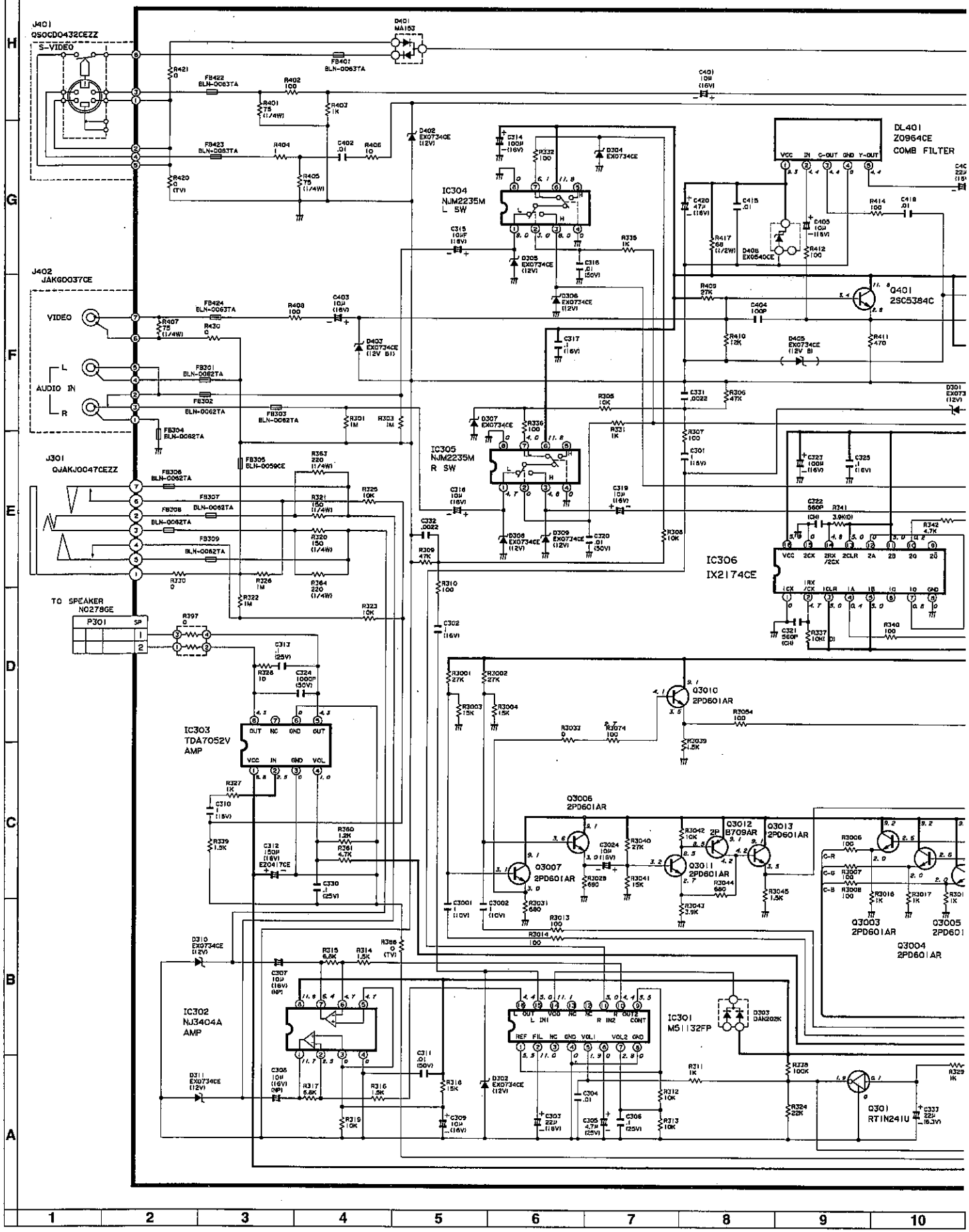


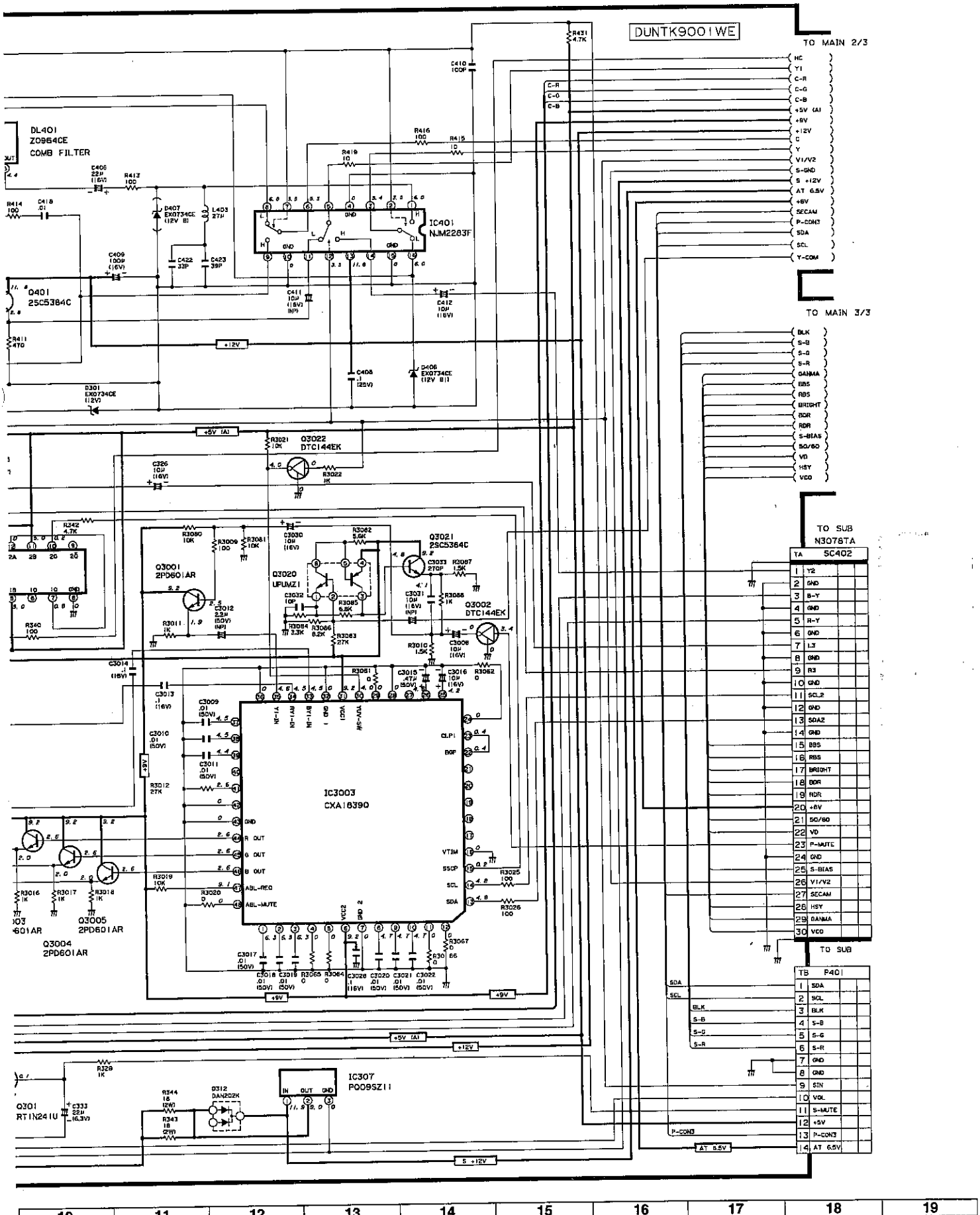
⑳ P1401 pin 2
2V/div, 20µsec/div



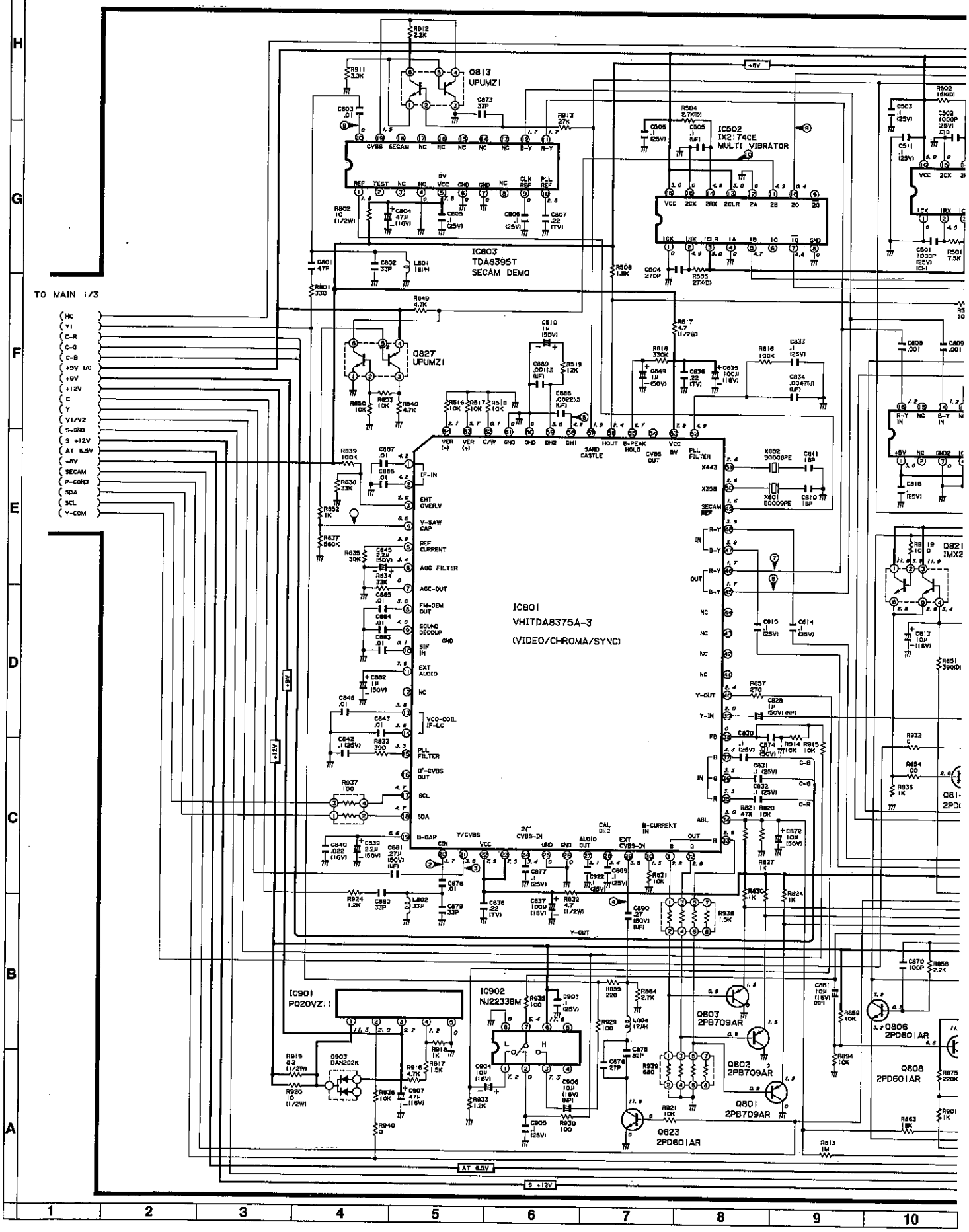
㉑ P1401 pin 3
2V/div, 20µsec/div

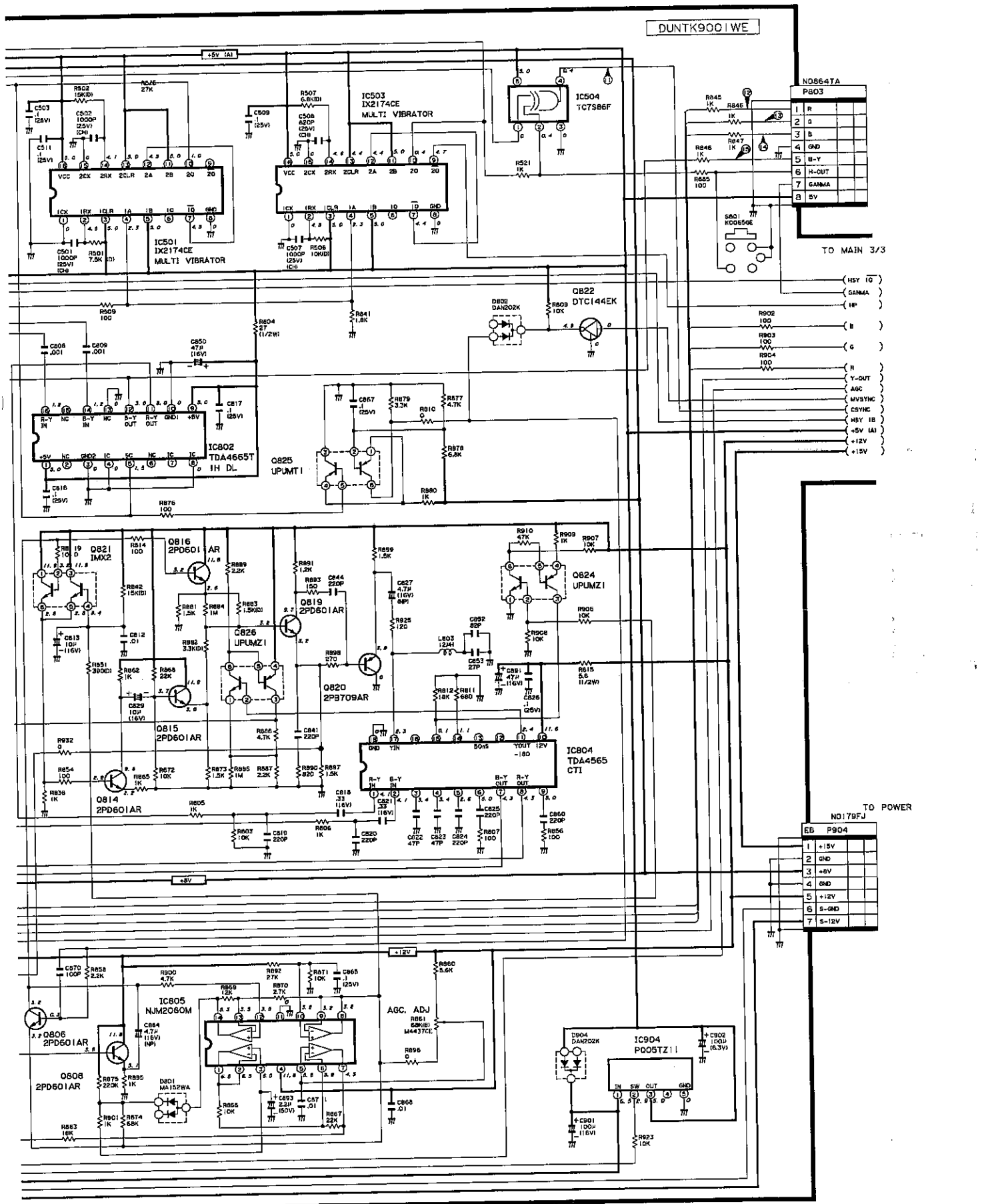
■ MAIN UNIT-1/3 / HAUPT-EINHEIT-1/3 主装置电路 -1/3




DUNTK9001WE
TO MAIN 2/3
TO MAIN 3/3
TO SUB N3078TA
TO SUB
DL401
ZO964CE
COMB FILTER
IC401
NJM2283F
Q401
2SC5384C
Q3001
2PD601AR
Q3002
DTC144EK
Q3004
2PD601AR
Q3005
2PD601AR
Q3020
UPUMZ1
Q3021
2SC5384C
Q3022
DTC144EK
IC3003
CXA1839Q
IC307
PQ09SZ11
Q301
RT1N241U
SC402
P401
+12V
+5V (A)
+9V
+8V
S +12V
AT 6.5V
P-CON3

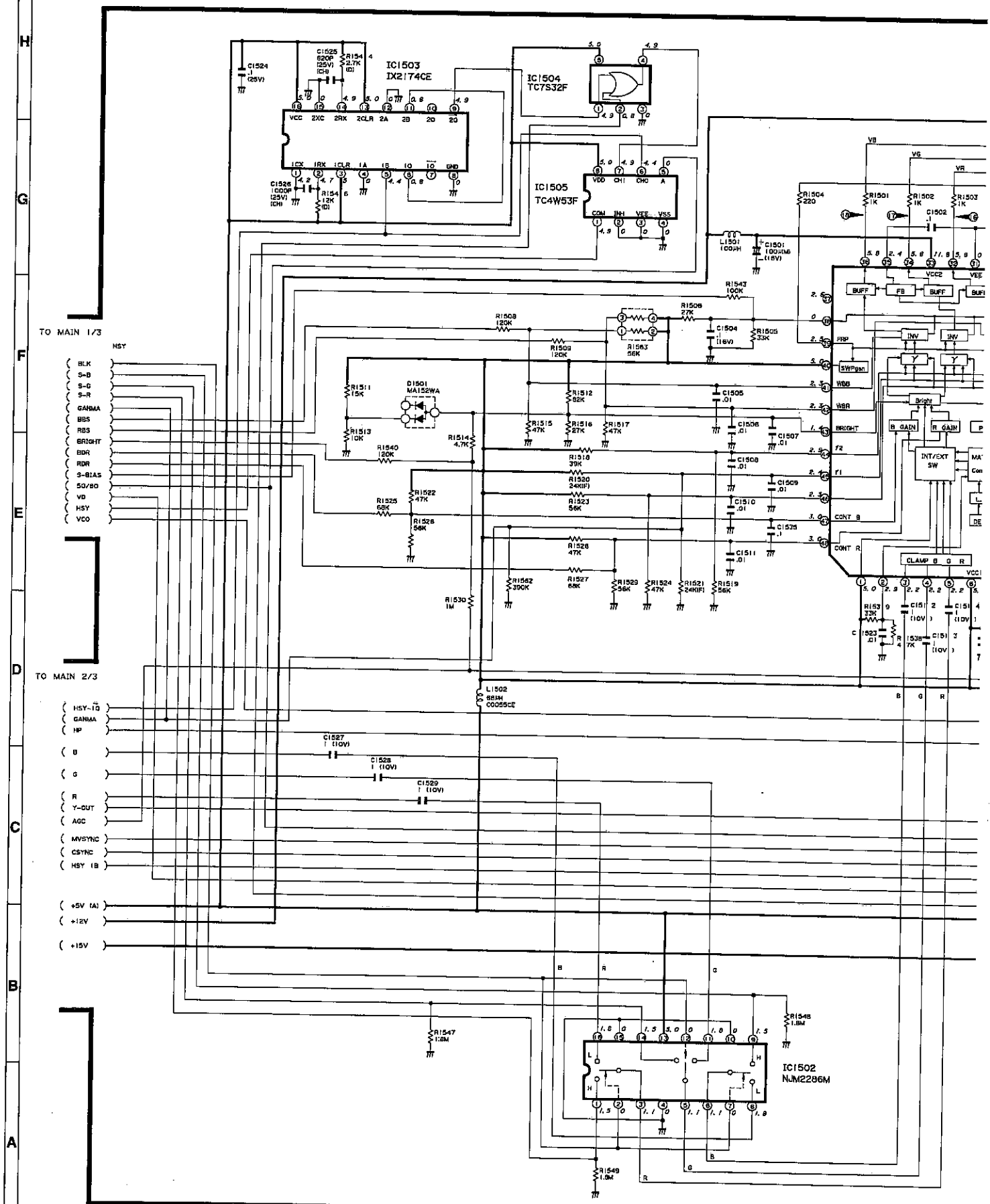
■ MAIN UNIT-2/3 / HAUPT-EINHEIT-2/3 主装置电路 -2/3

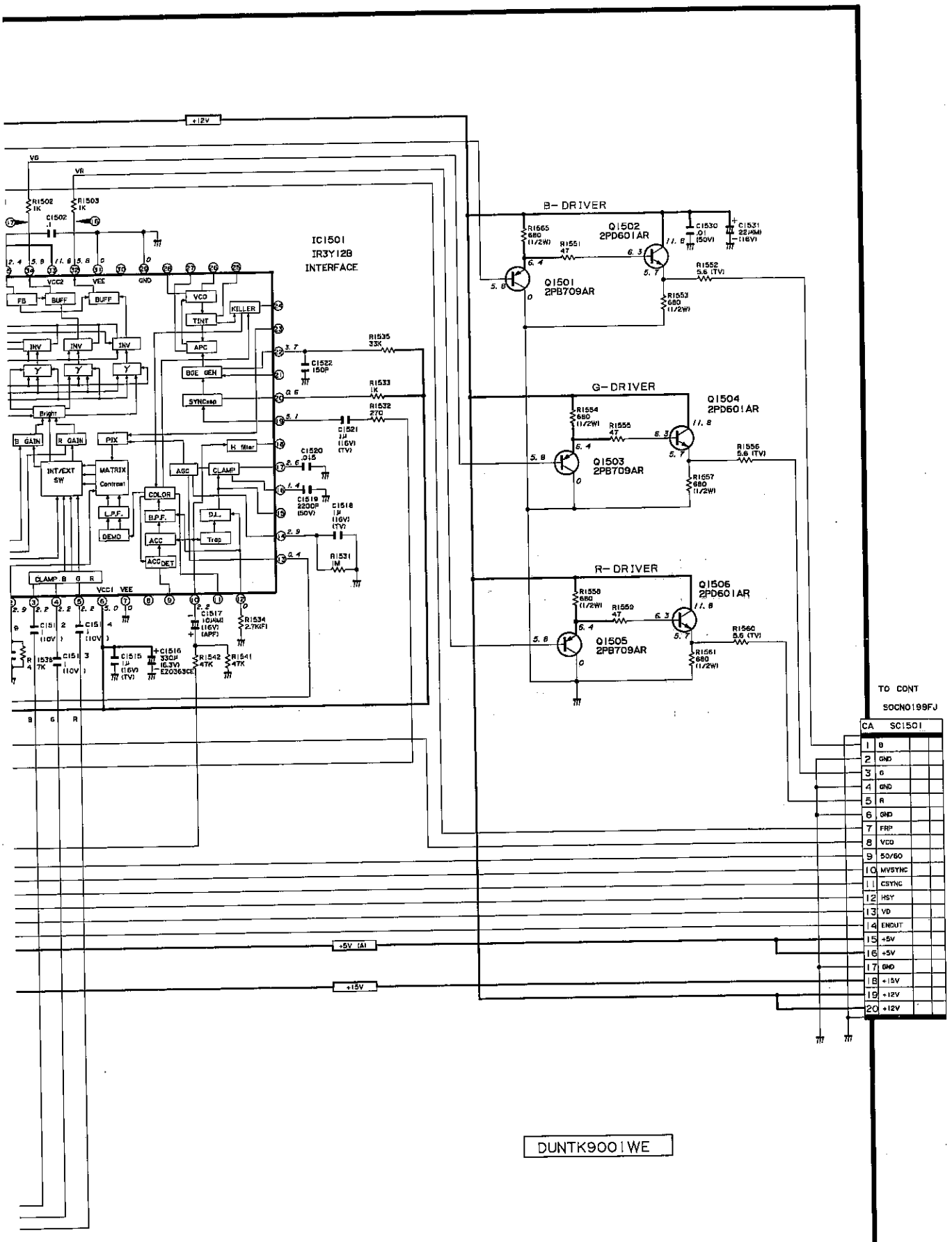




10	11	12	13	14	15	16	17	18	19

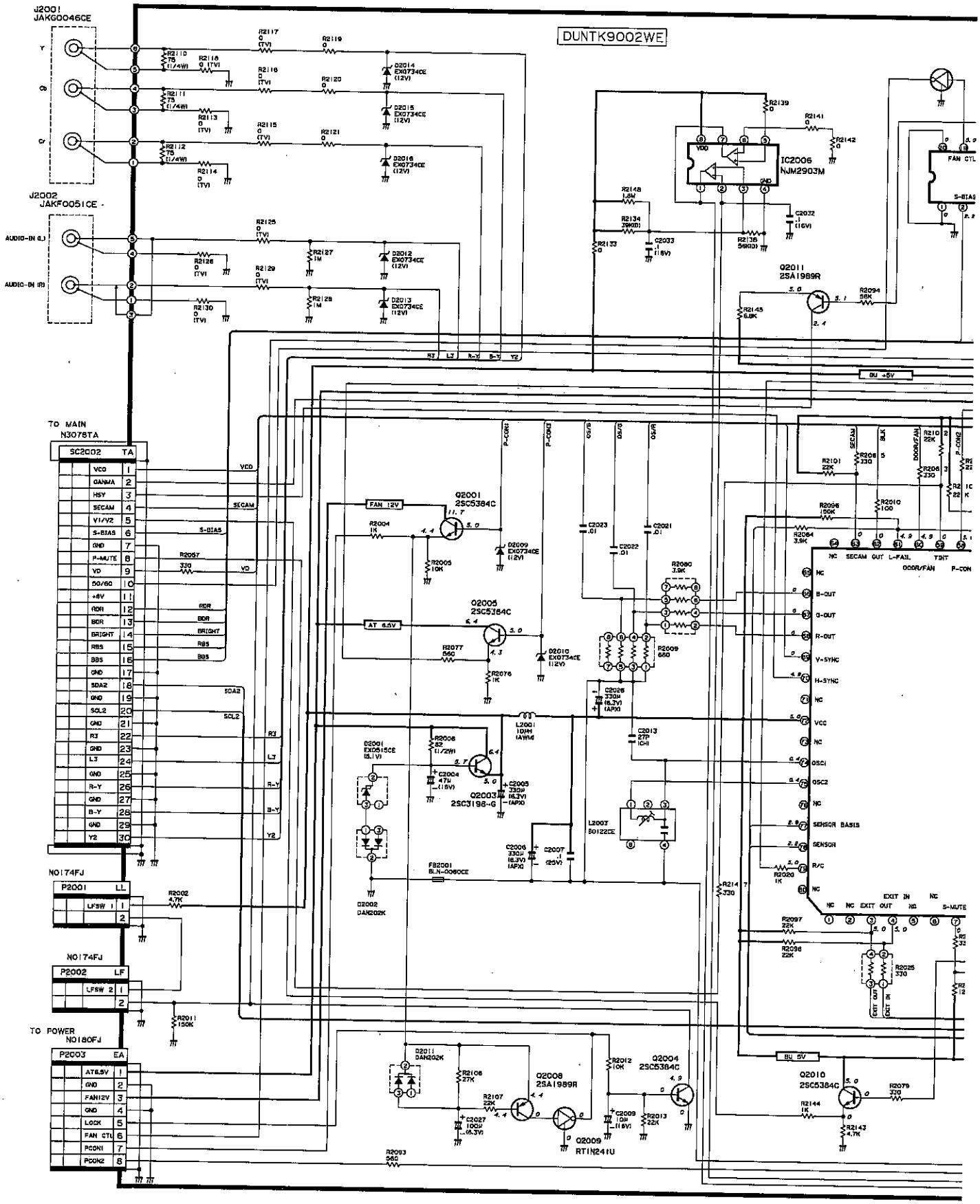
■ MAIN UNIT-3/3 / HAUPT-EINHEIT-3/3 主装置电路 -3/3

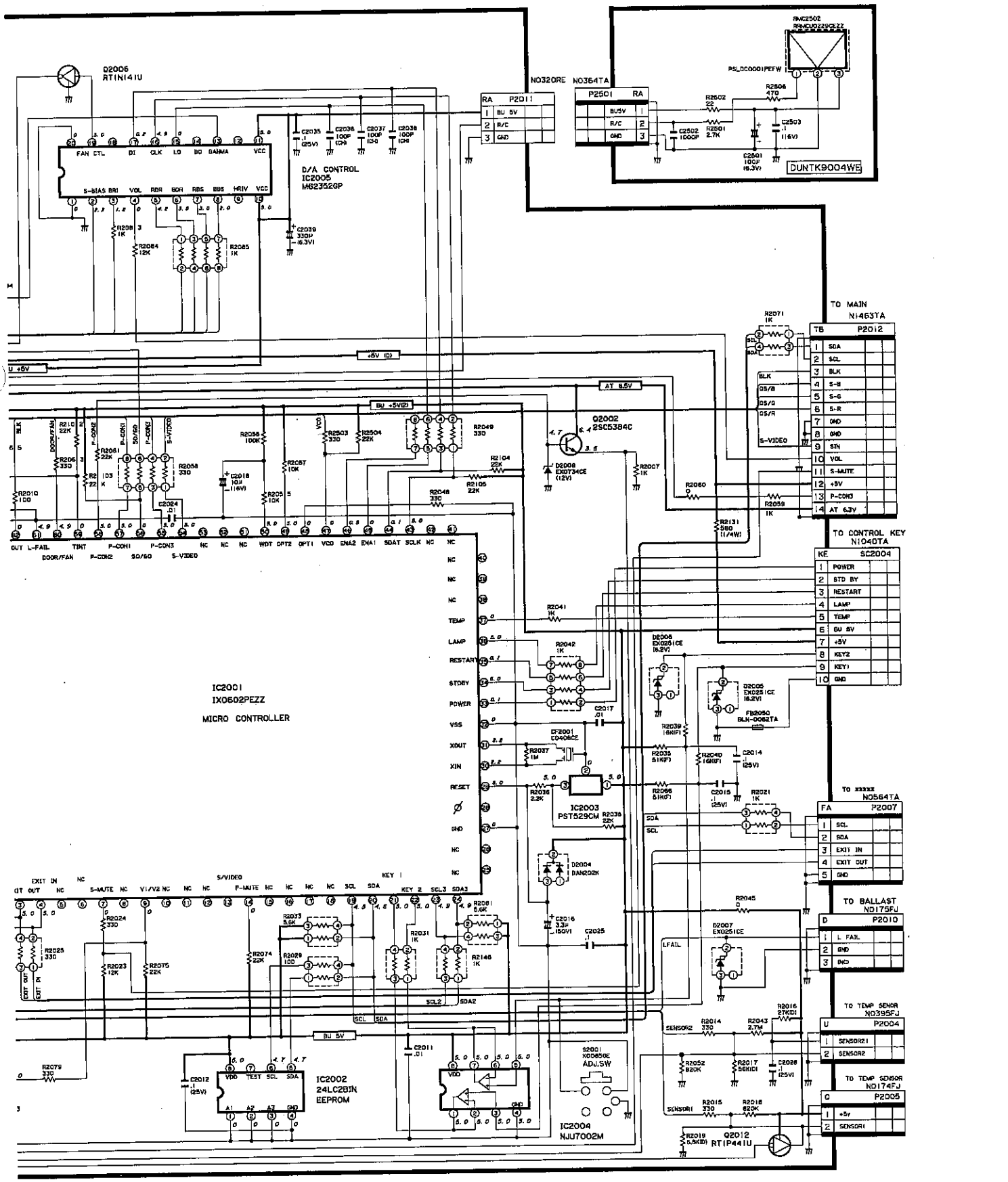




10	11	12	13	14	15	16	17	18	19

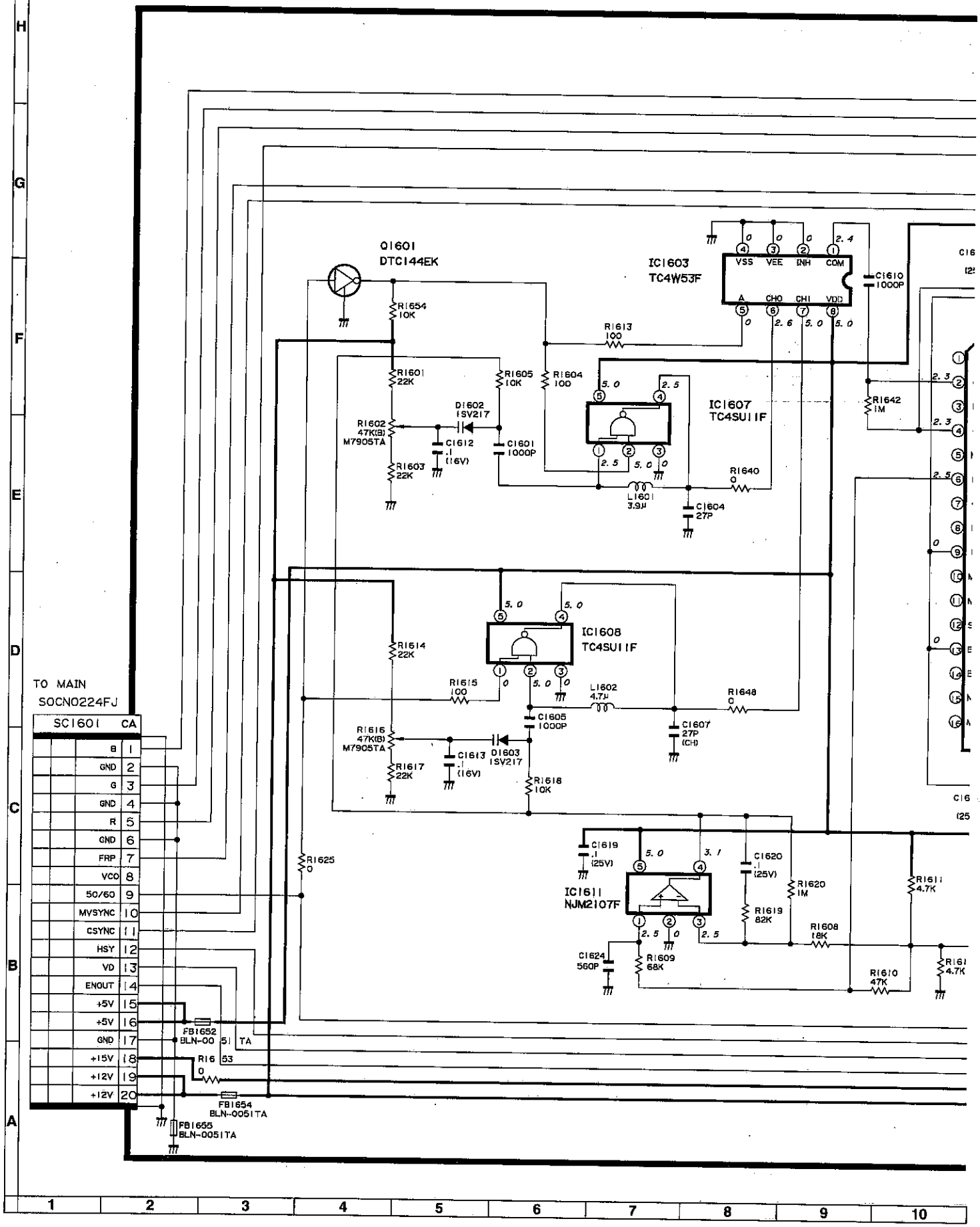
■ SUB and INFRARED R/C RECEIVER UNIT / UNTER und INFRAROT-EMPFÄNGEREINHEIT 辅助装置电路与红外线遥控信号接收器

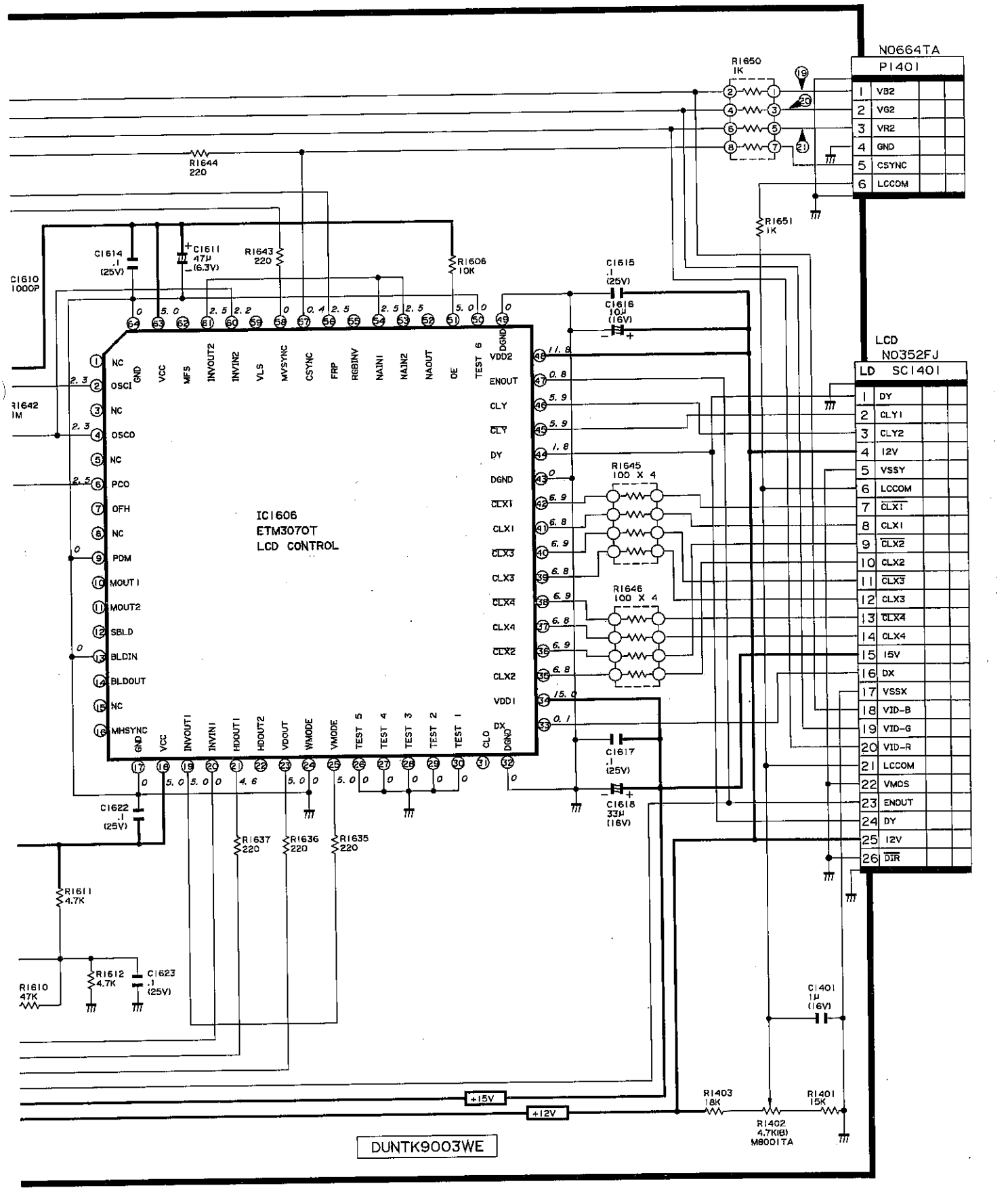




10	11	12	13	14	15	16	17	18	19

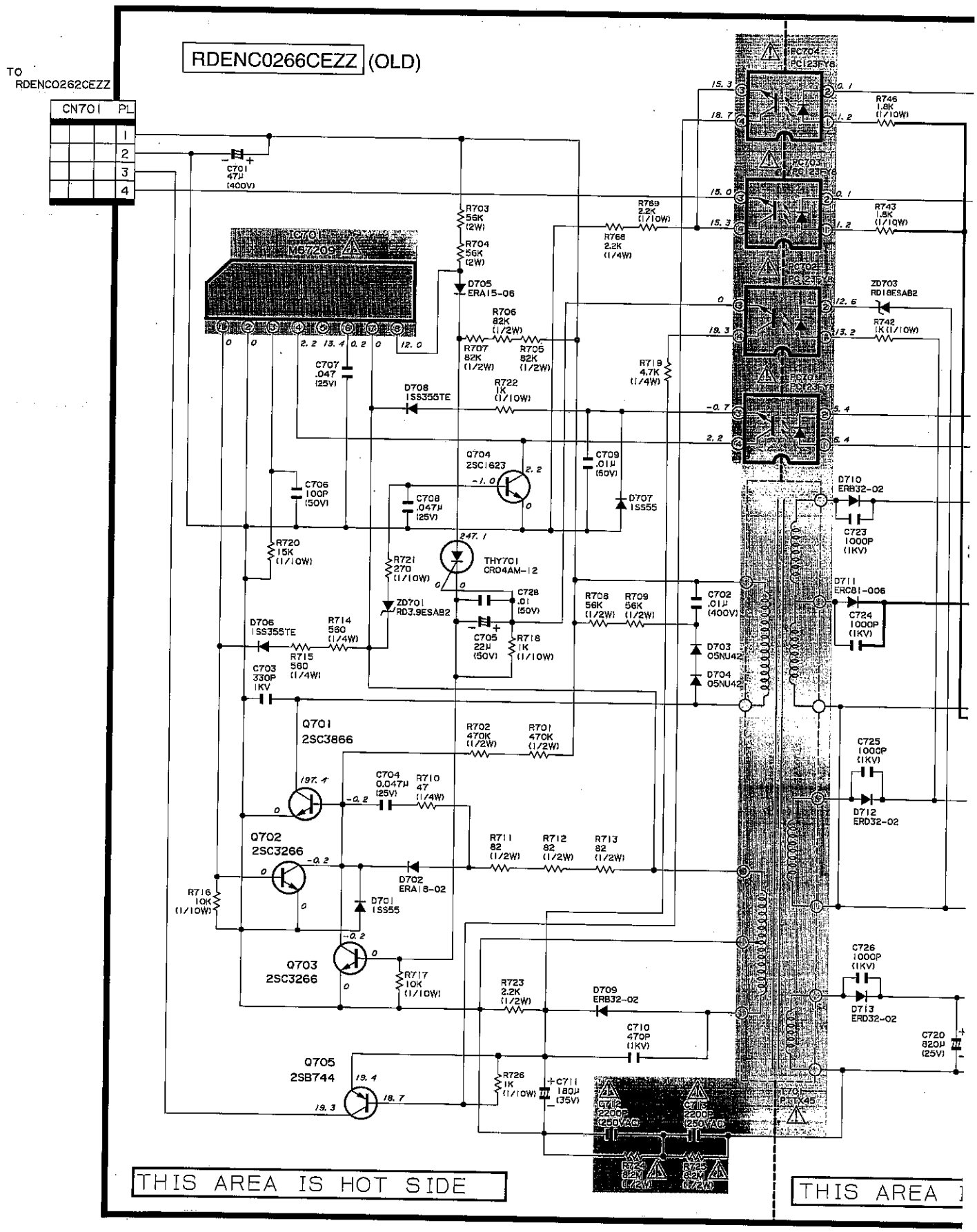
■ CONTROL UNIT / STEUERWERKEINHEIT 控制器电路

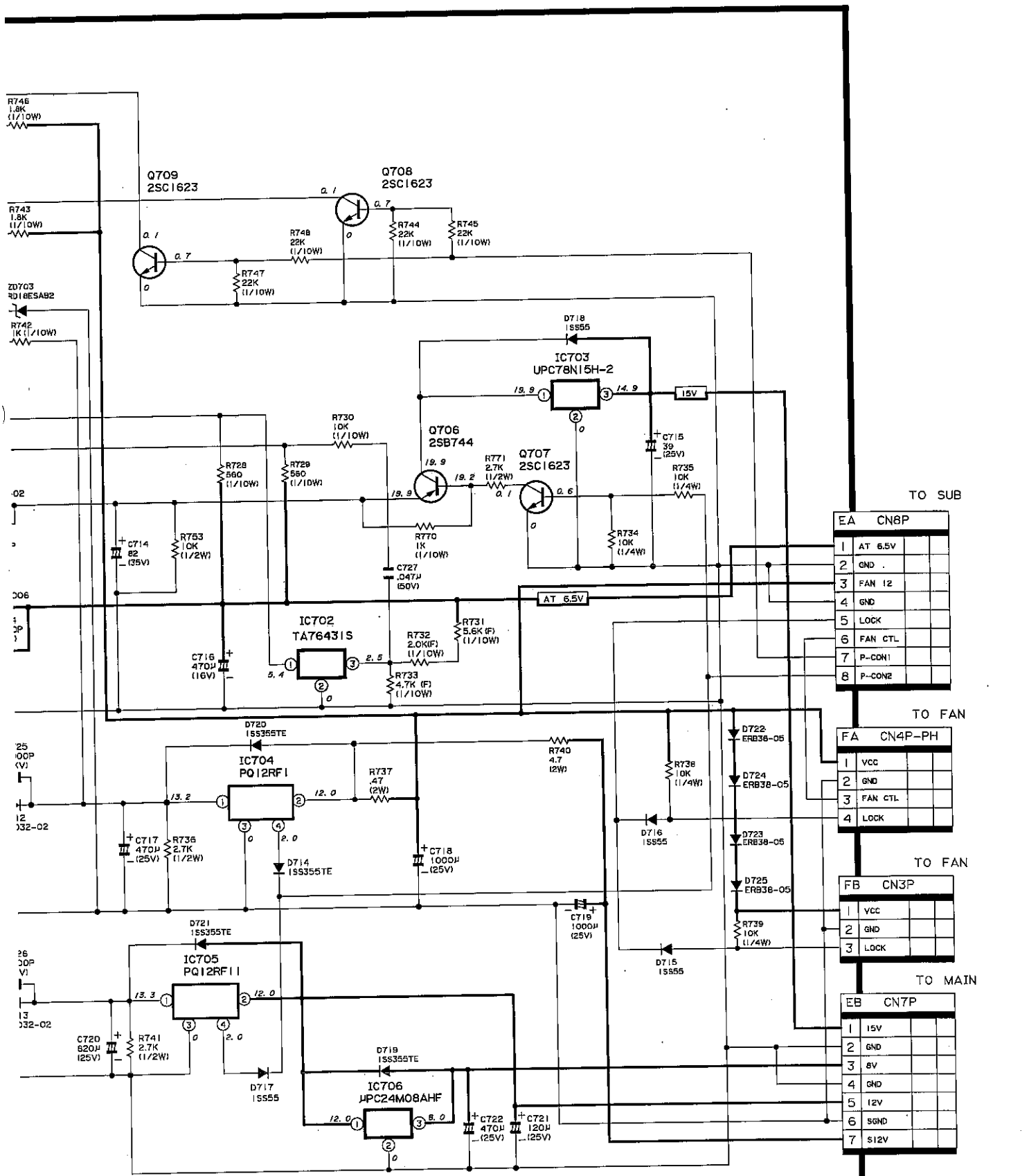




10	11	12	13	14	15	16	17	18	19

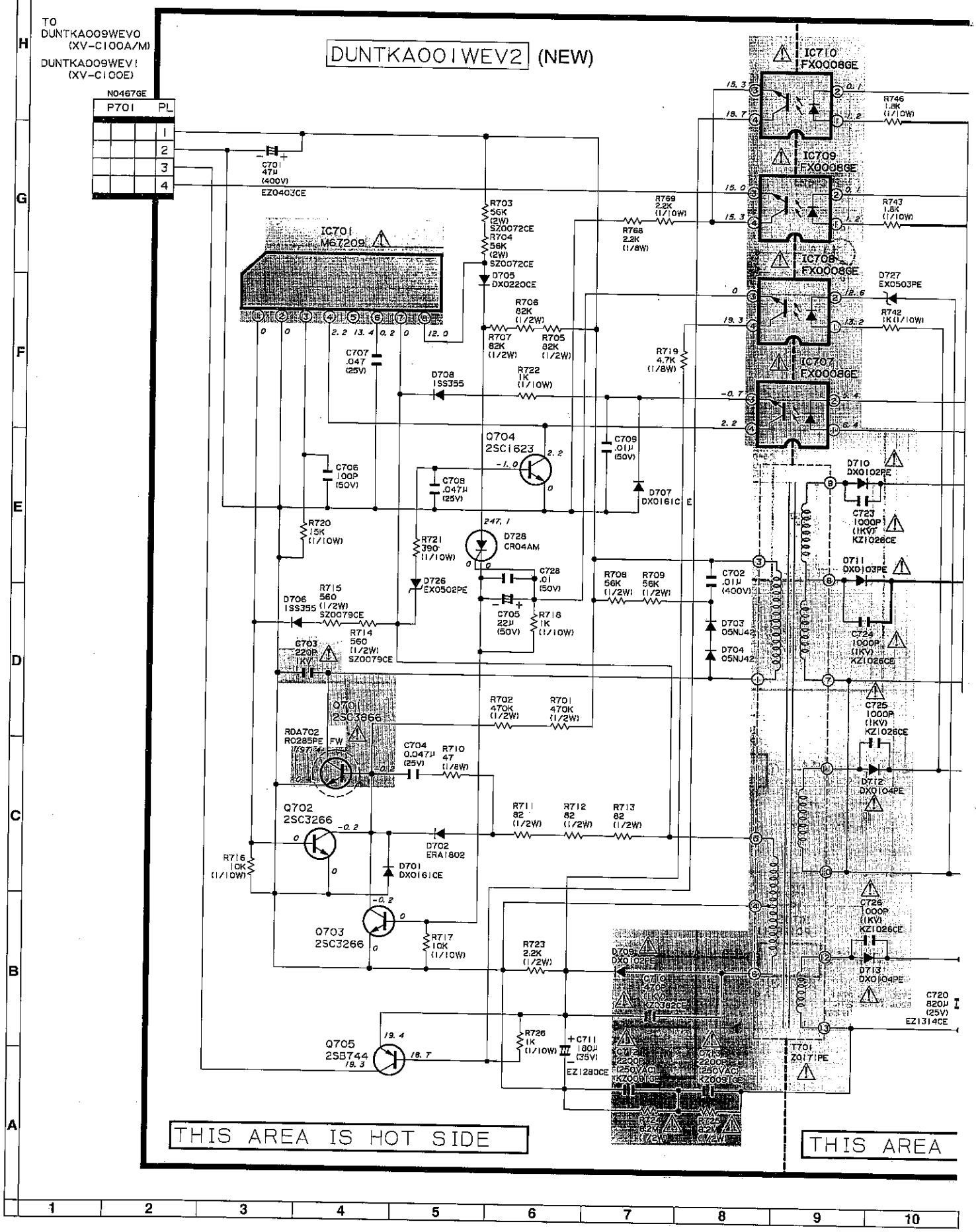
■ POWER UNIT / NETZEINHEIT 电源电路装置 (XV-C100M/E)

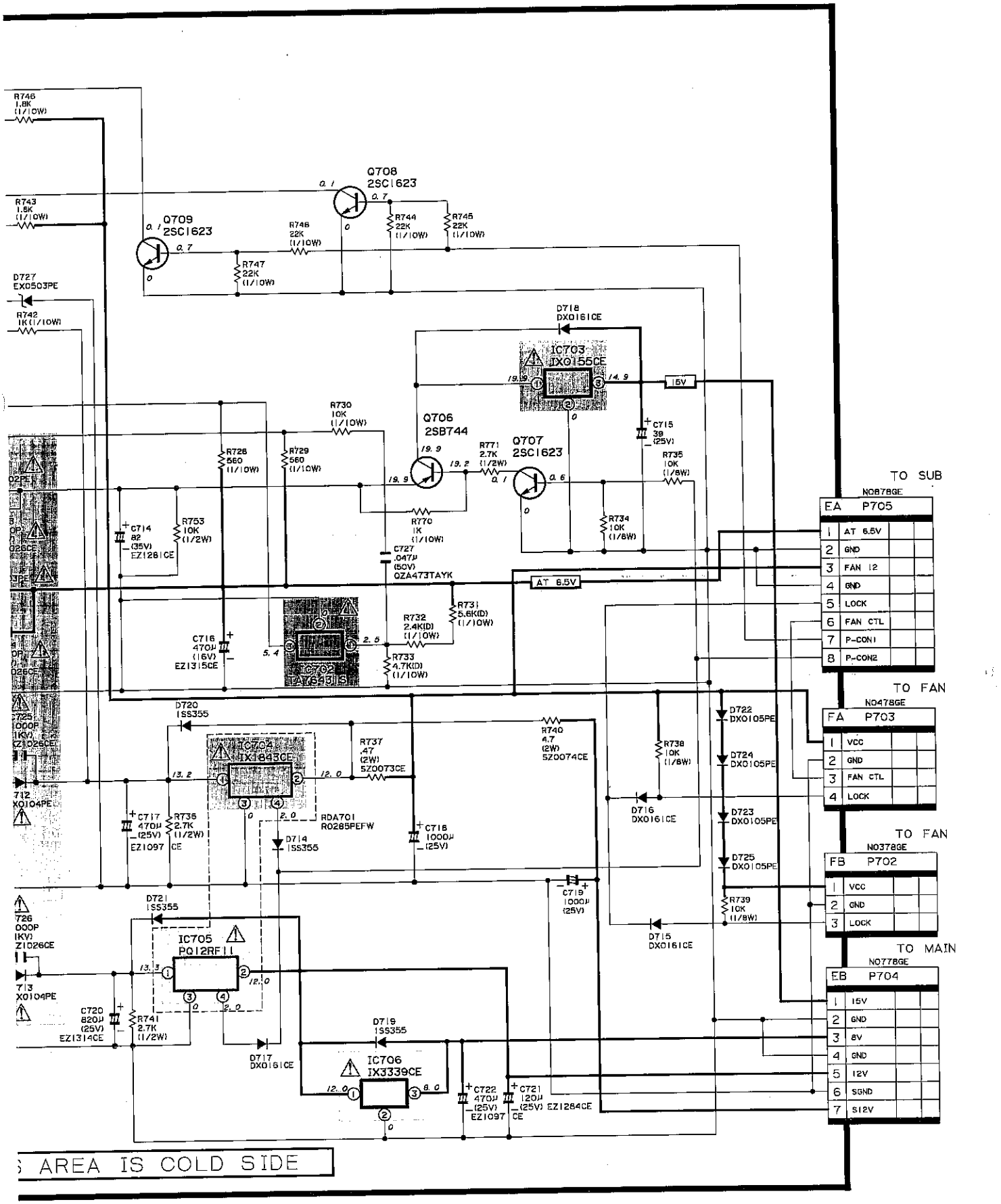




10	11	12	13	14	15	16	17	18	19

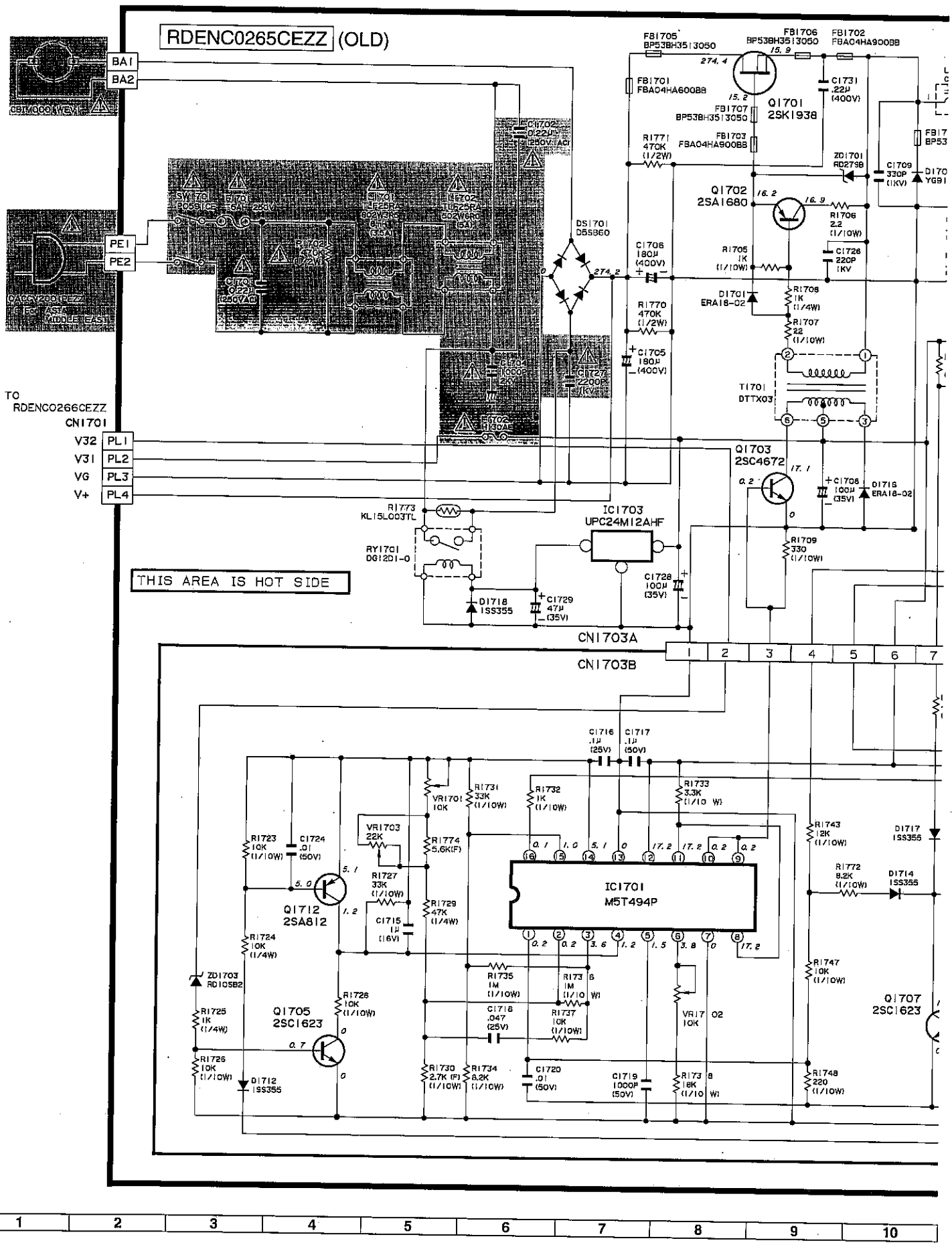
■ POWER UNIT / NETZEINHEIT 电源电路装置

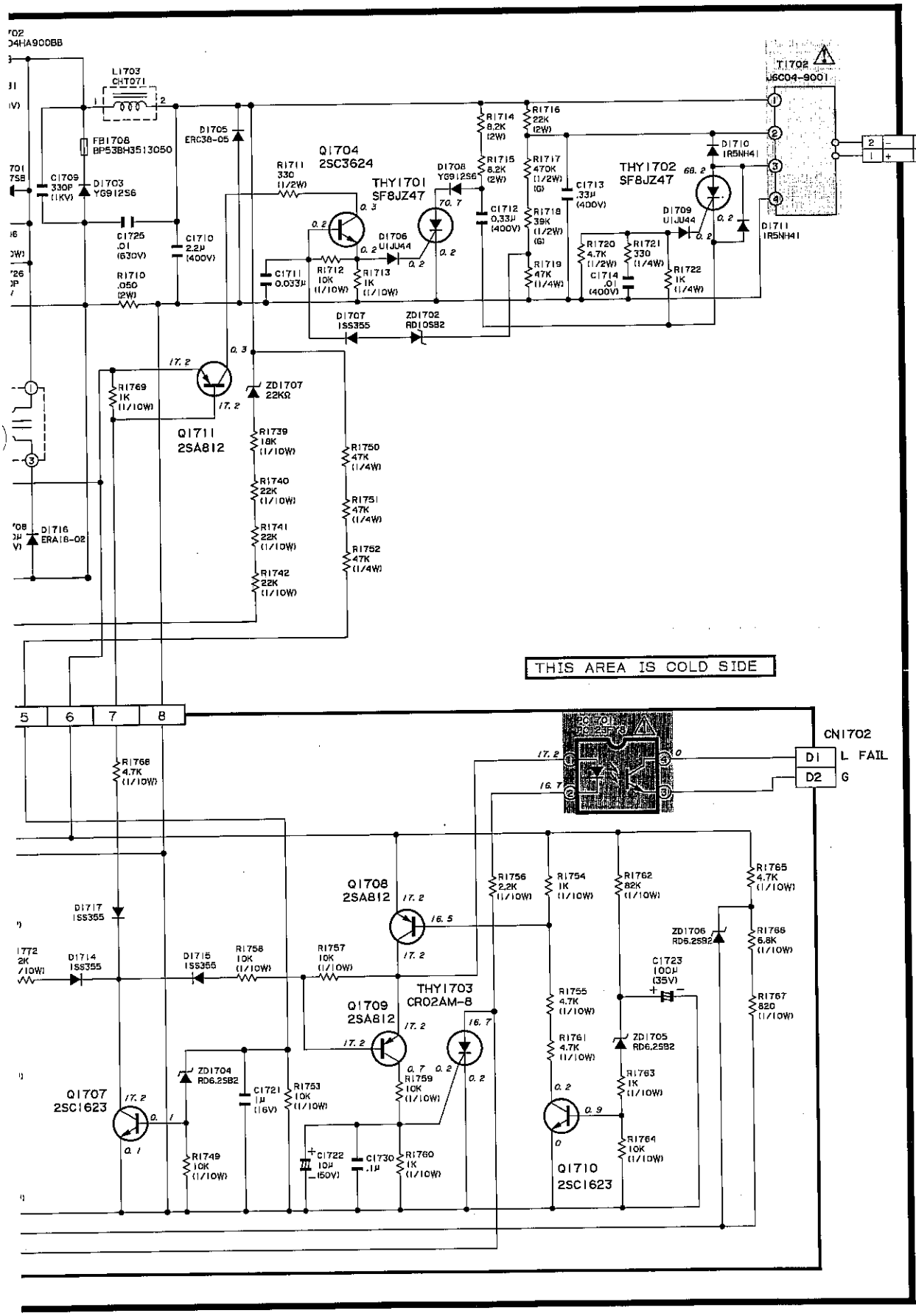




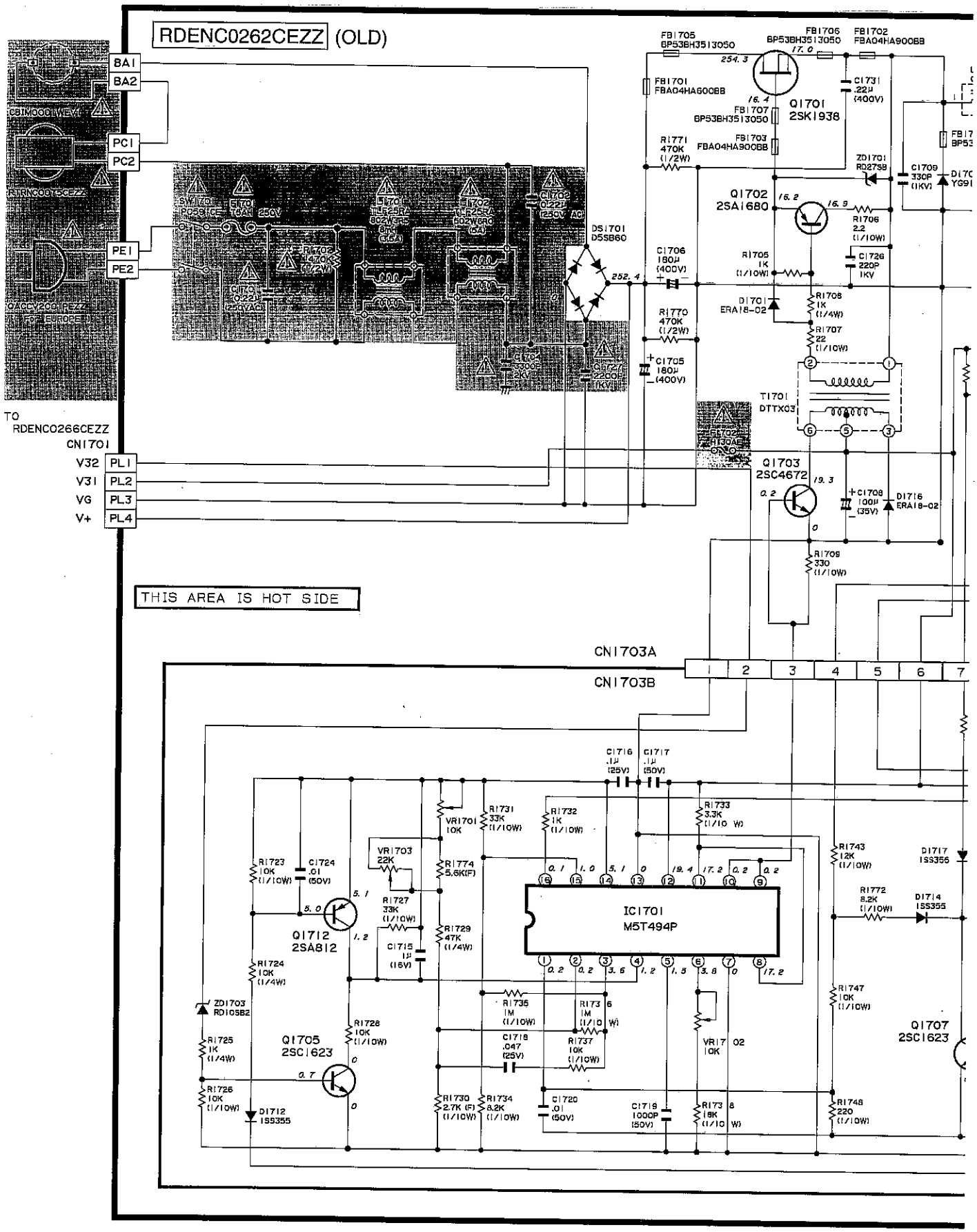
10	11	12	13	14	15	16	17	18	19

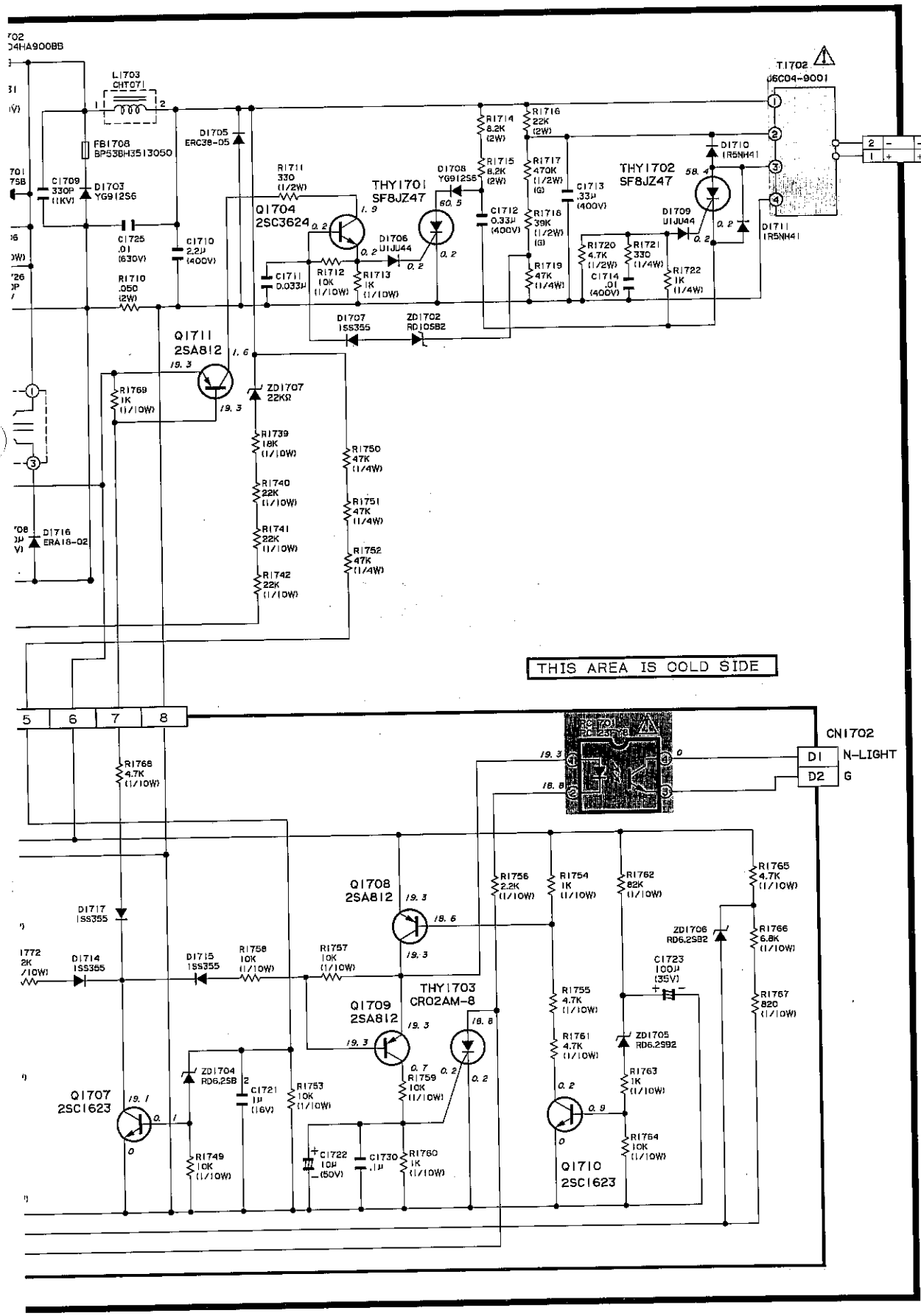
■ BALLAST UNIT / BALLASTEINHEIT 镇流电路装置 (XV-C100M)



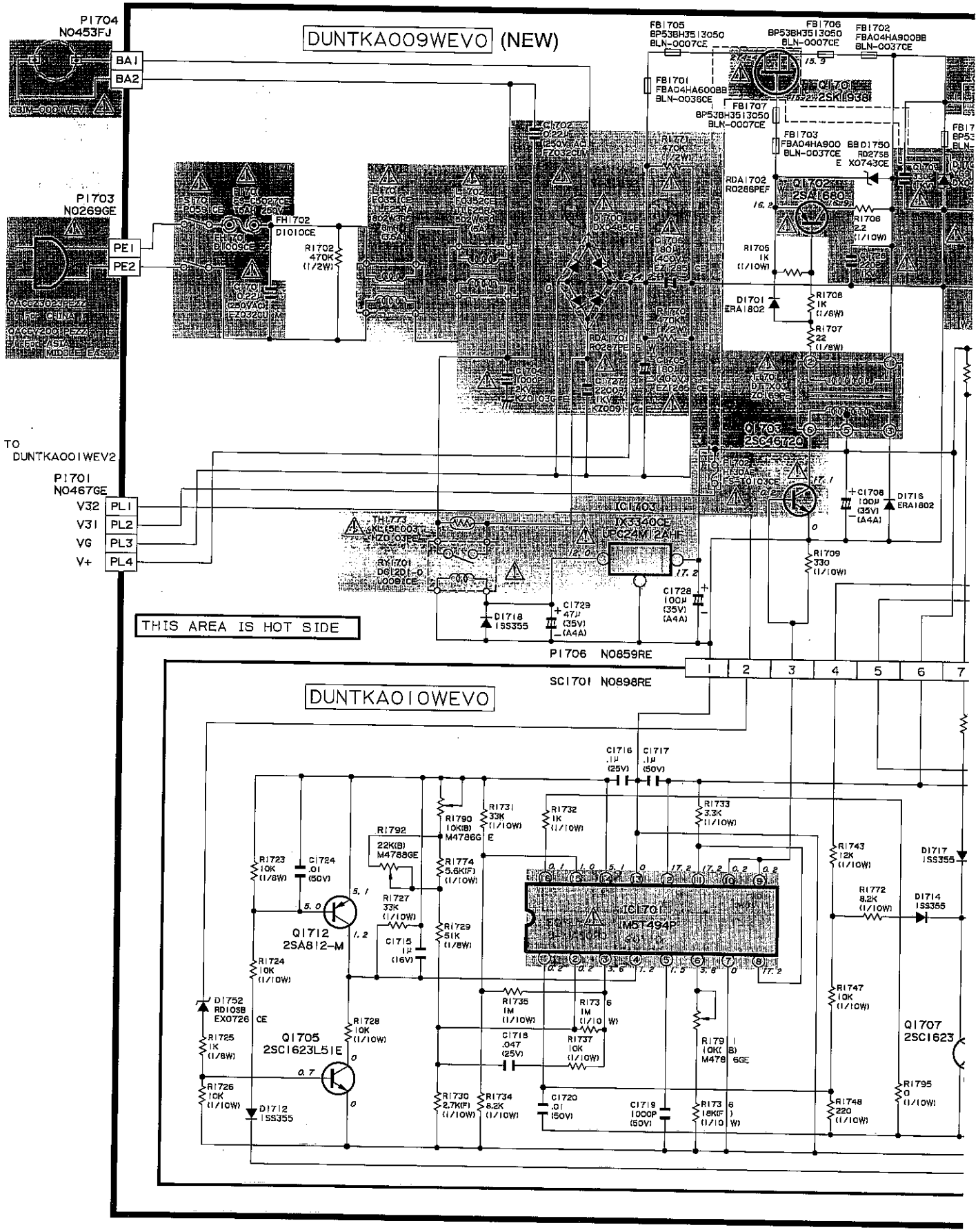

L1703
CHT071
FB1708
BP53BH3513050
C1709
330P
(1KV)
D1703
YG912S6
D1705
ERC38-05
C1725
.01
(630V)
C1710
2.2μ
(400V)
R1710
.050
(2W)
Q1704
2SC3624
R1711
330
(1/2W)
THY1701
SF8JZ47
D1708
YG912S6
R1714
8.2K
(2W)
R1715
8.2K
(2W)
C1712
0.33μ
(400V)
R1716
22K
(2W)
R1717
470K
(1/2W)
(G)
R1718
39K
(1/2W)
(G)
R1719
47K
(1/4W)
C1713
.33μ
(400V)
THY1702
SF8JZ47
D1710
1R5NH41
D1709
U1JU44
D1711
1R5NH41
T1702
J6C04-9001
LAMP
CLMPF0053DE
R1720
4.7K
(1/2W)
R1721
330
(1/4W)
R1722
1K
(1/4W)
C1714
.01
(400V)
C1711
0.033μ
R1712
10K
(1/10W)
R1713
1K
(1/10W)
D1706
U1JU44
D1707
1SS355
ZD1702
RD10S82
R1769
1K
(1/10W)
Q1711
2SA812
ZD1707
22KΩ
R1739
18K
(1/10W)
R1740
22K
(1/10W)
R1741
22K
(1/10W)
R1742
22K
(1/10W)
R1750
47K
(1/4W)
R1751
47K
(1/4W)
R1752
47K
(1/4W)
D1716
ERA18-02
THIS AREA IS COLD SIDE
CN1702
D1 L FAIL
D2 G
R1766
4.7K
(1/10W)
Q1708
2SA812
R1756
2.2K
(1/10W)
R1754
1K
(1/10W)
R1762
82K
(1/10W)
R1765
4.7K
(1/10W)
D1717
1SS355
D1714
1SS355
D1715
1SS355
R1758
10K
(1/10W)
R1757
10K
(1/10W)
THY1703
CR02AM-8
Q1709
2SA812
R1755
4.7K
(1/10W)
R1761
4.7K
(1/10W)
ZD1706
RD6.2S92
R1766
6.8K
(1/10W)
C1723
100μ
(35V)
R1767
820
(1/10W)
ZD1705
RD6.2S92
R1763
1K
(1/10W)
ZD1704
RD6.2S92
C1721
1μ
(16V)
R1753
10K
(1/10W)
Q1707
2SC1623
R1759
10K
(1/10W)
Q1710
2SC1623
R1764
10K
(1/10W)
R1749
10K
(1/10W)
C1722
10μ
(50V)
C1730
.1μ
R1760
1K
(1/10W)

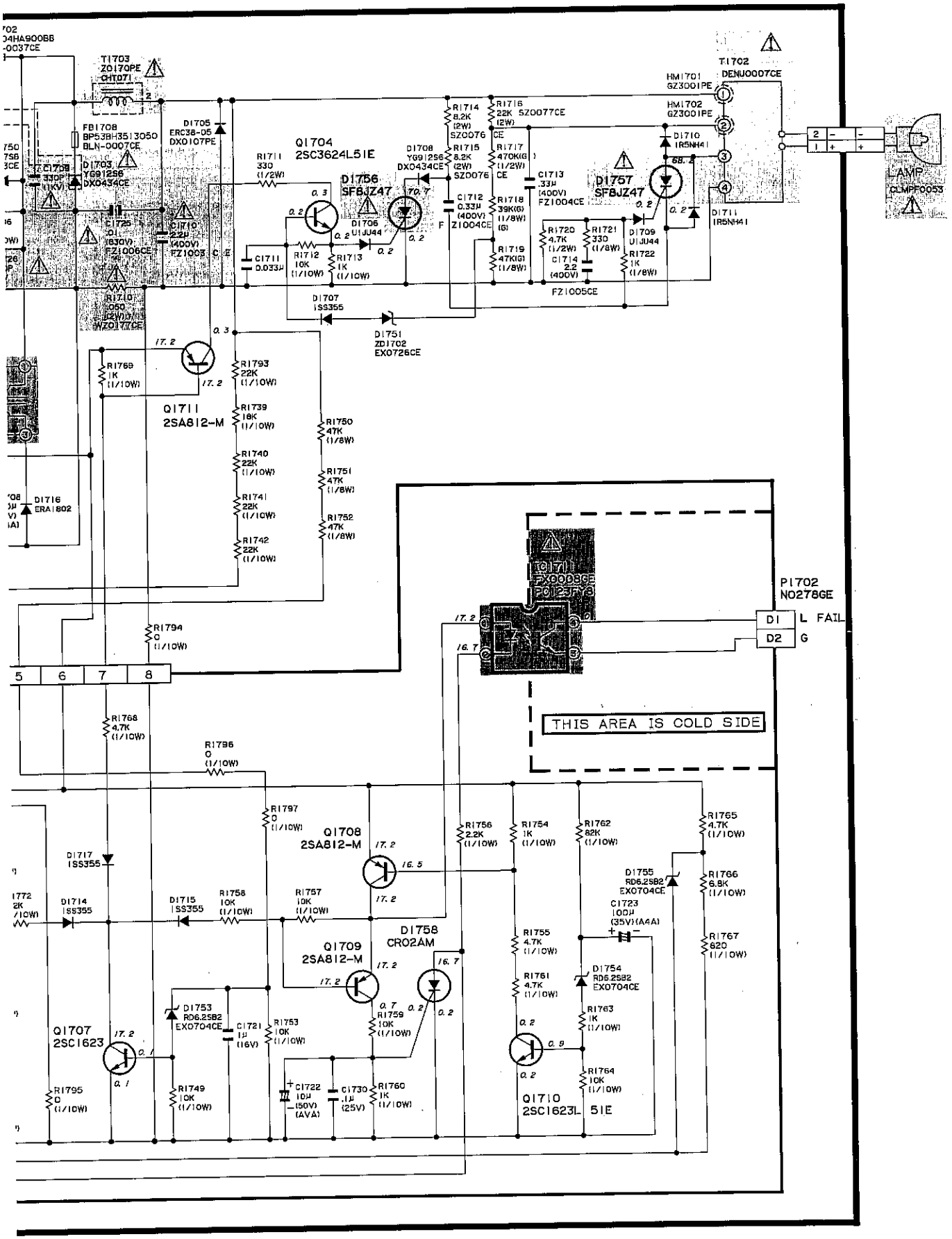
■ BALLAST UNIT / BALLASTEINHEIT 镇流电路装置 (XV-C100E)




T1702
D6C04-9001
LAMP
CLMPF0053DE
THY1701
SF8JZ47
THY1702
SF8JZ47
Q1704
2SC3624
Q1711
2SA812
Q1708
2SA812
Q1709
2SA812
Q1707
2SC1623
Q1710
2SC1623
THY1703
CR02AM-8
THIS AREA IS COLD SIDE
CN1702
D1 N-LIGHT
D2 G
L1703
CHT071
FB1708
BP538H3513050
D1703
YG912S6
D1705
ERC38-05
D1716
ERA16-02
D1708
YG912S5
D1710
(R5NH41)
D1711
(R5NH41)
D1706
U1JU44
D1709
U1JU44
D1707
1SS355
ZD1702
RD10SB2
D1717
1SS355
D1714
1SS355
D1715
1SS355
ZD1707
22KΩ
ZD1704
RD6.2SB
ZD1705
RD6.2S92
ZD1706
RD6.2S92
R1711
330
(1/2W)
R1712
10K
(1/10W)
R1713
1K
(1/10W)
R1714
8.2K
(2W)
R1715
8.2K
(2W)
R1716
22K
(2W)
R1717
470K
(1/2W)
(G)
R1718
39K
(1/2W)
(G)
R1719
47K
(1/4W)
R1720
4.7K
(1/2W)
R1721
330
(1/4W)
R1722
1K
(1/4W)
R1739
18K
(1/10W)
R1740
22K
(1/10W)
R1741
22K
(1/10W)
R1742
22K
(1/10W)
R1750
47K
(1/4W)
R1751
47K
(1/4W)
R1752
47K
(1/4W)
R1753
10K
(1/10W)
R1754
1K
(1/10W)
R1755
4.7K
(1/10W)
R1756
2.2K
(1/10W)
R1757
10K
(1/10W)
R1758
10K
(1/10W)
R1759
10K
(1/10W)
R1760
1K
(1/10W)
R1761
4.7K
(1/10W)
R1762
82K
(1/10W)
R1763
1K
(1/10W)
R1764
10K
(1/10W)
R1765
4.7K
(1/10W)
R1766
6.8K
(1/10W)
R1767
820
(1/10W)
R1768
4.7K
(1/10W)
R1769
1K
(1/10W)
R1772
2K
(1/10W)
C1709
330P
(1KV)
C1710
2.2μ
(400V)
C1711
0.033μ
C1712
0.33μ
(400V)
C1713
.33μ
(400V)
C1714
.01
(400V)
C1721
1μ
(16V)
C1722
10μ
(50V)
C1723
100μ
(35V)
C1725
.01
(630V)
C1730
.1μ
R1710
.050
(2W)

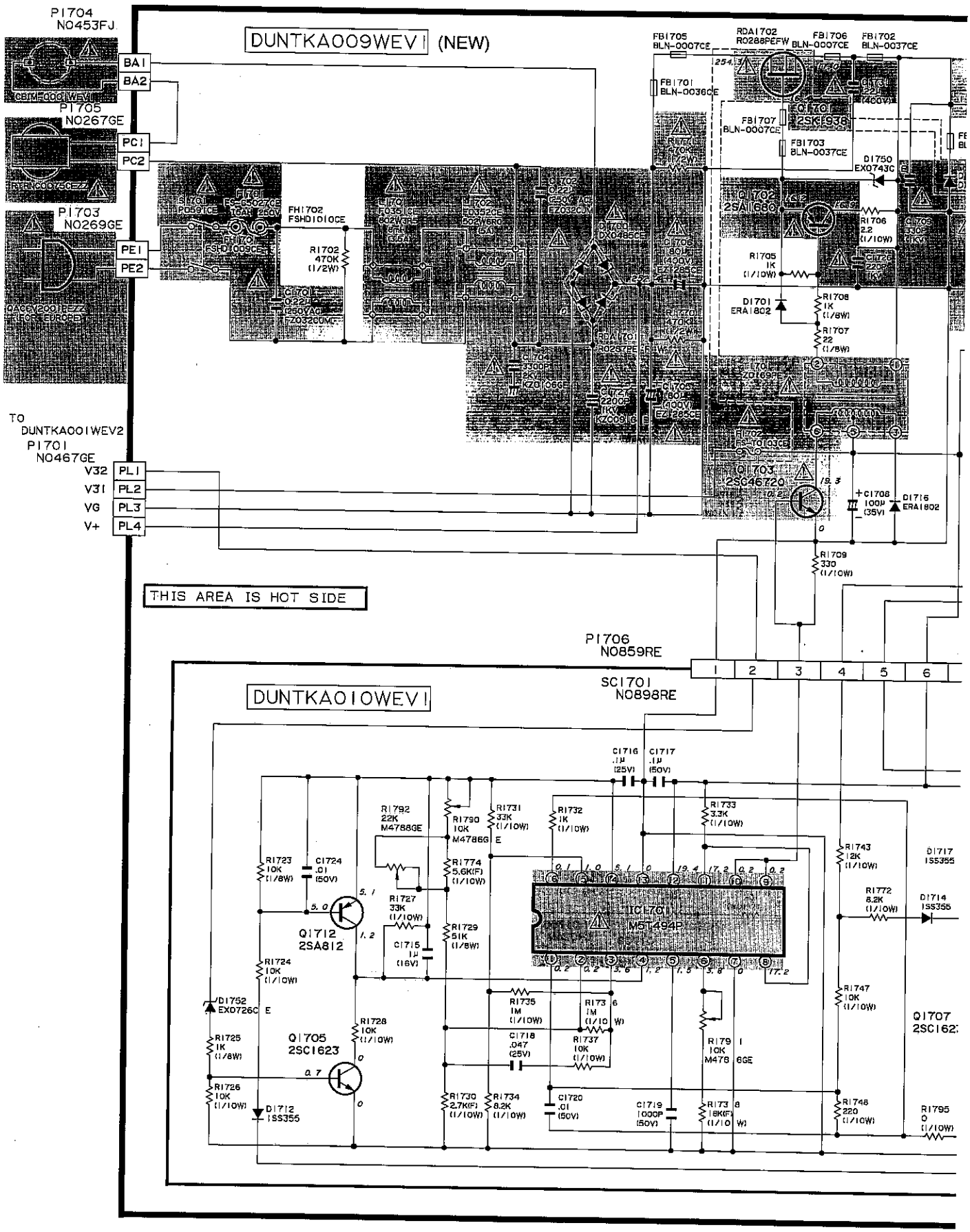
■ BALLAST UNIT / BALLASTEINHEIT 镇流电路装置 (XV-C100A/M)

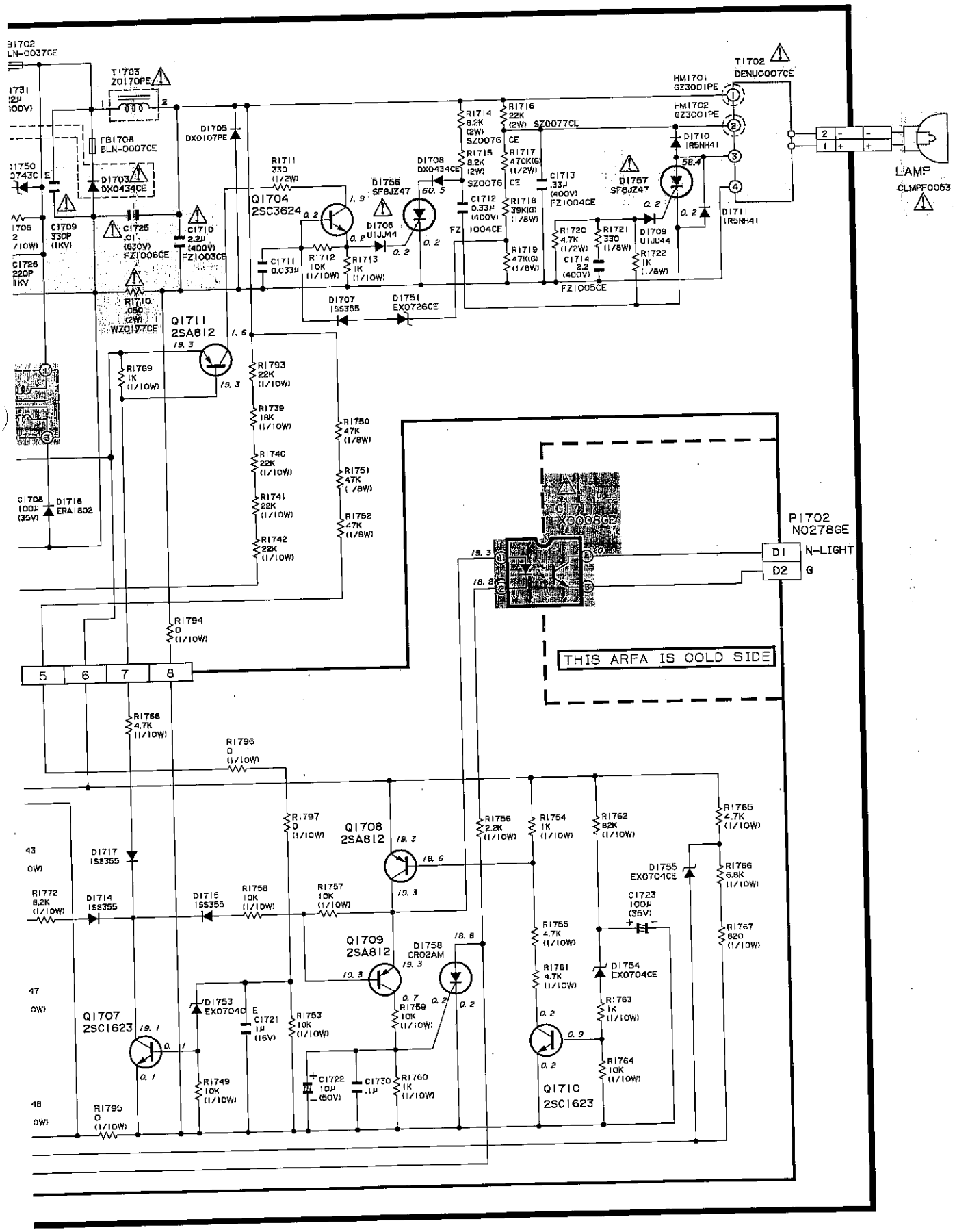




10	11	12	13	14	15	16	17	18	19

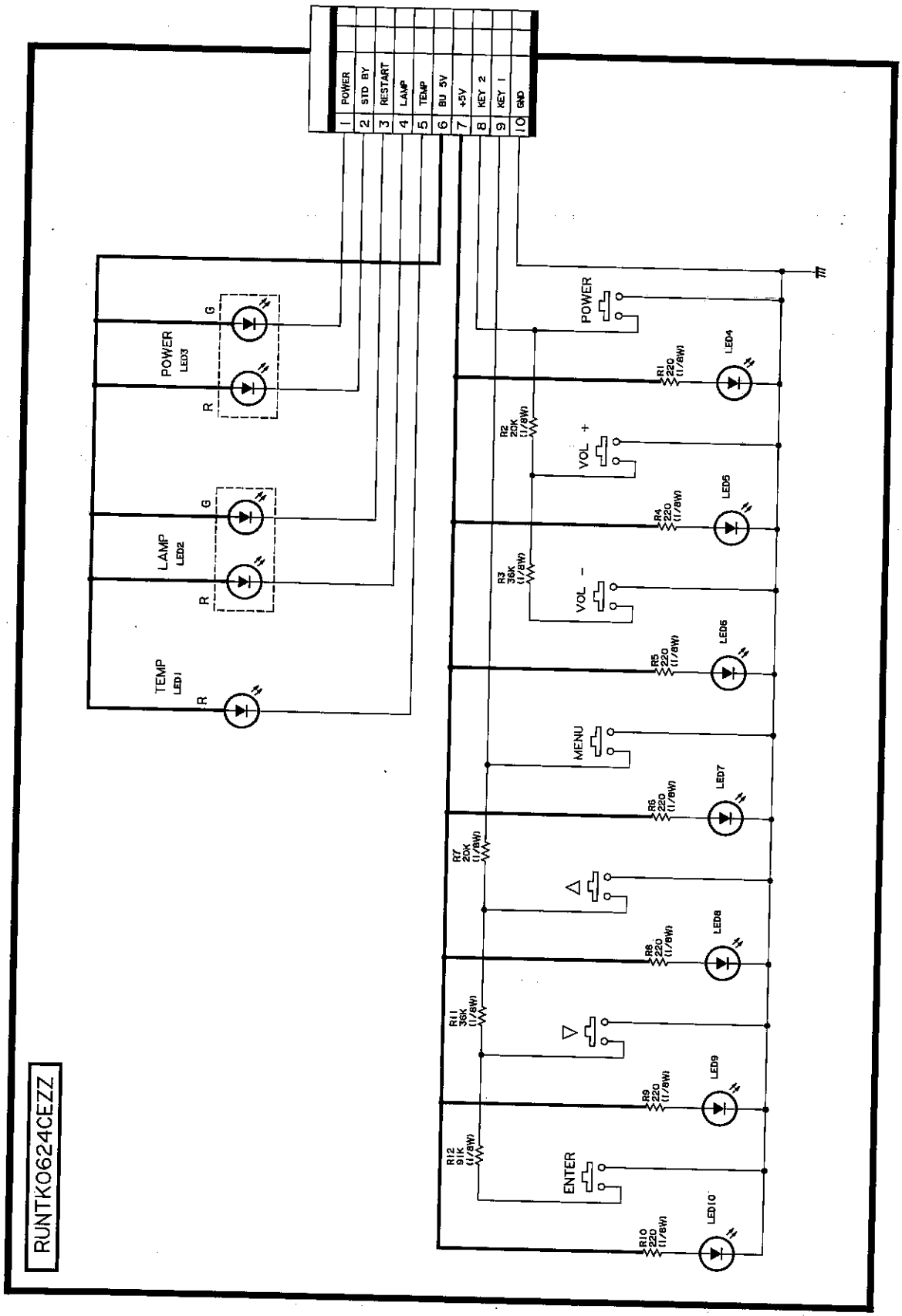
■ BALLAST UNIT / BALLASTEINHEIT 镇流电路装置 (XV-C100E)



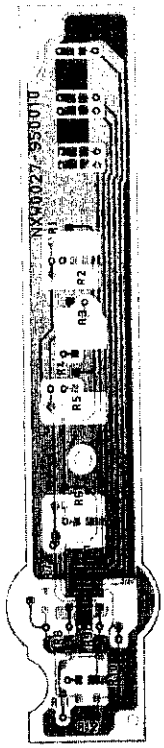


10 11 12 13 14 15 16 17 18 19

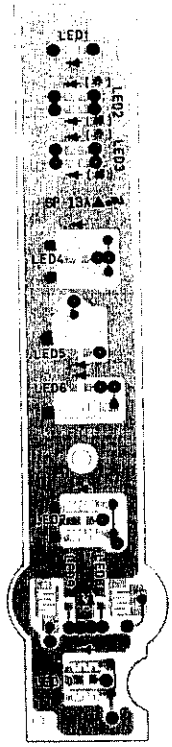
■ OPERATION KEY UNIT / BEDIENTASTENEINHEIT 操作鍵装置



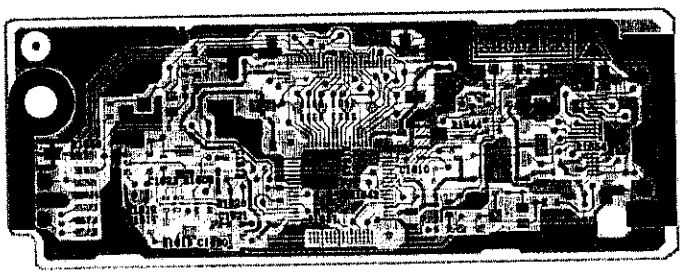
■ PRINTED WIRING BOARD ASSEMBLIES / LEITERPLATTENINHEITIN 印刷电路板组件



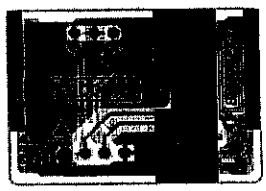
Operation Key Unit (Wiring Side) / Bedienungstasteneinheit (Leiterbahnseite)
操作键装置印刷电路板（线路贴置侧）



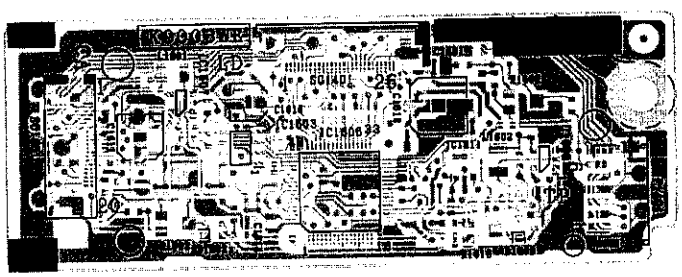
Operation Key Unit (Component Side) / Bedienungstasteneinheit (Bestückungsseite)
操作键装置印刷电路板（部件装备侧）



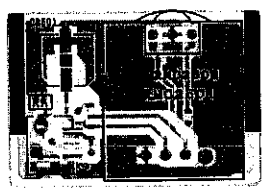
Control Unit (Wiring Side) / Steuerwerkeinheit (Leiterbahnseite)
控制器印刷电路板（线路贴置侧）



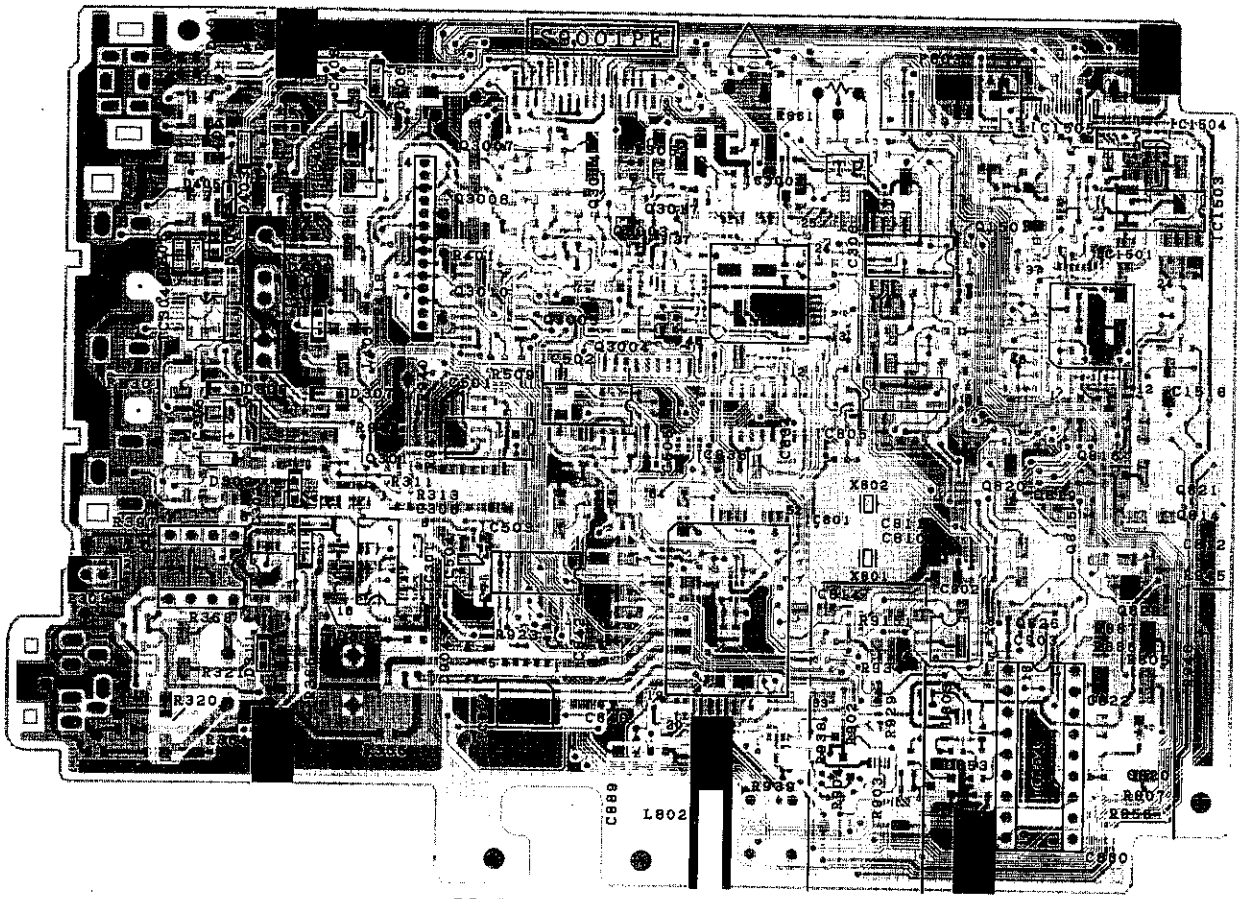
Infrared R/C Receiver Unit (Wiring Side) / Infrarot-empfängereinheit (Leiterbahnseite)
红外线遥控信号接收器印刷电路板（线路贴置侧）



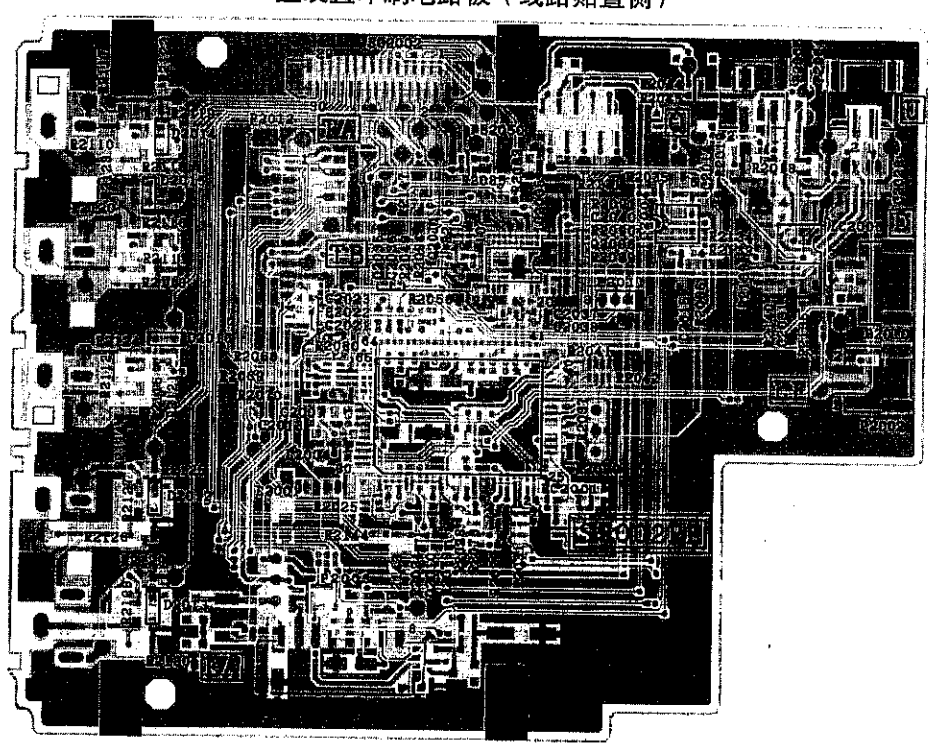
Control Unit (Component Side) / Steuerwerkeinheit (Bestückungsseite)
控制器印刷电路板（部件装备侧）



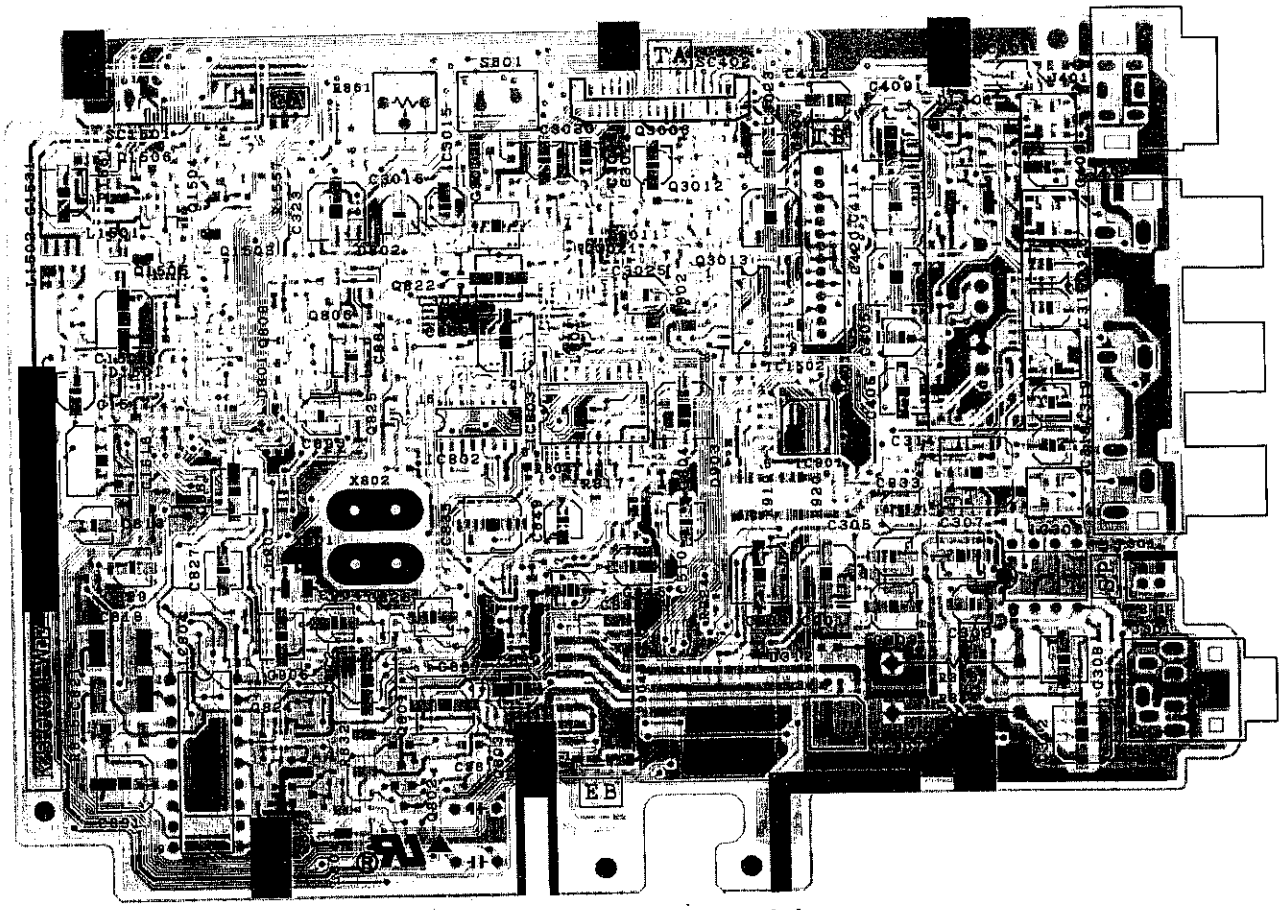
Infrared R/C Receiver Unit (Component Side) / Infrarot-empfängereinheit (Bestückungsseite)
红外线遥控信号接收器印刷电路板（部件装备侧）



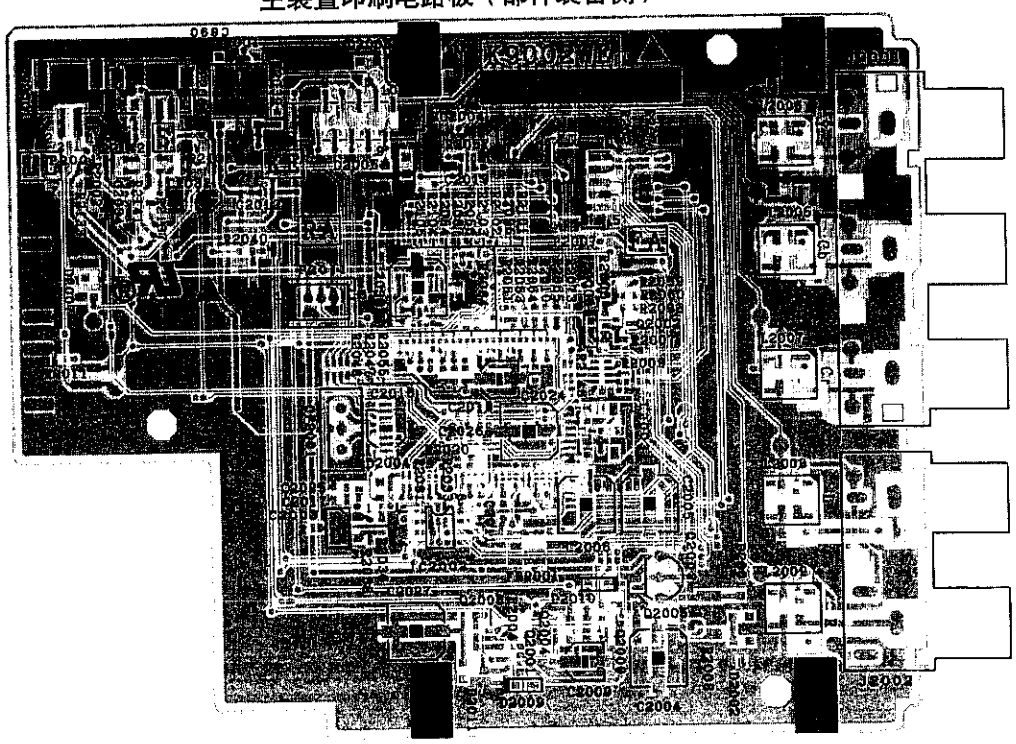
Main Unit (Wiring Side) /
Haupteinheit (Leiterbahnseite)
主装置印刷电路板（线路贴置侧）



Sub Unit (Wiring Side) /
Untereinheit (Leiterbahnseite)
辅助装置印刷电路板（线路贴置侧）



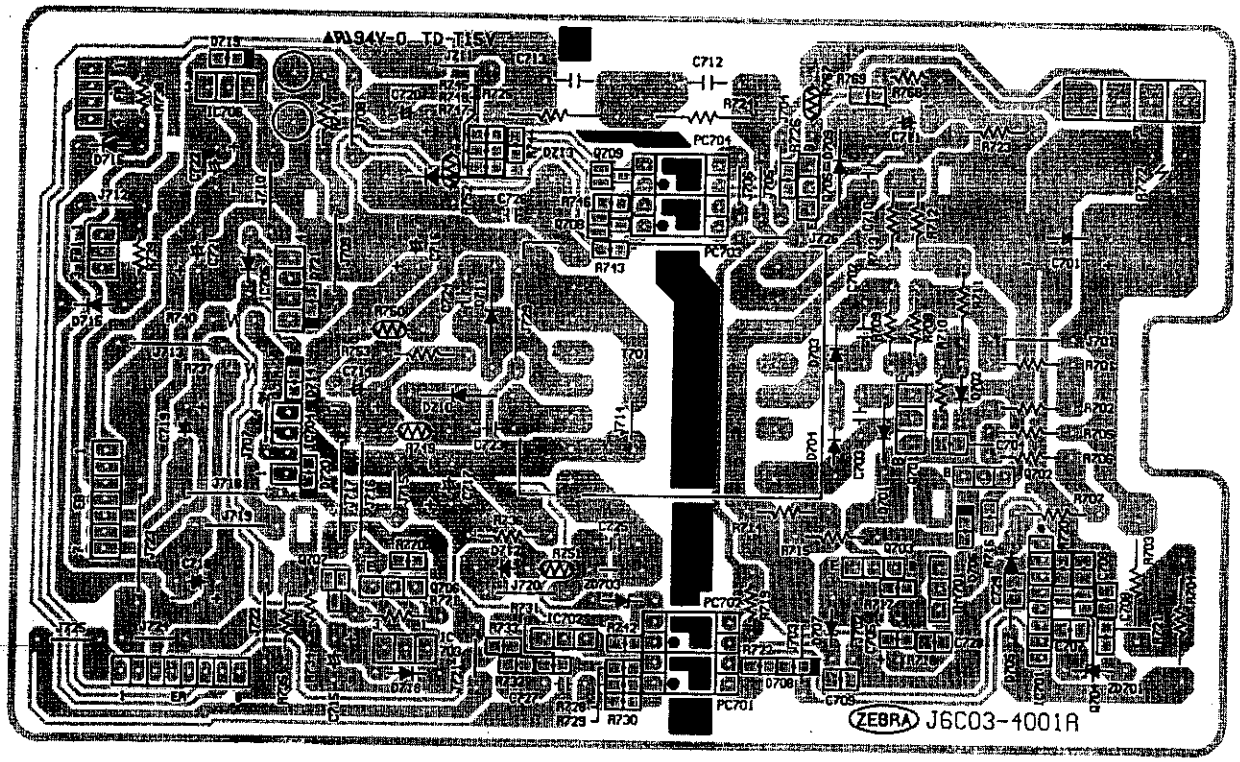
Main Unit (Component Side) /
Haupteinheit (Bestückungsseite)
主装置印刷电路板（部件装备侧）



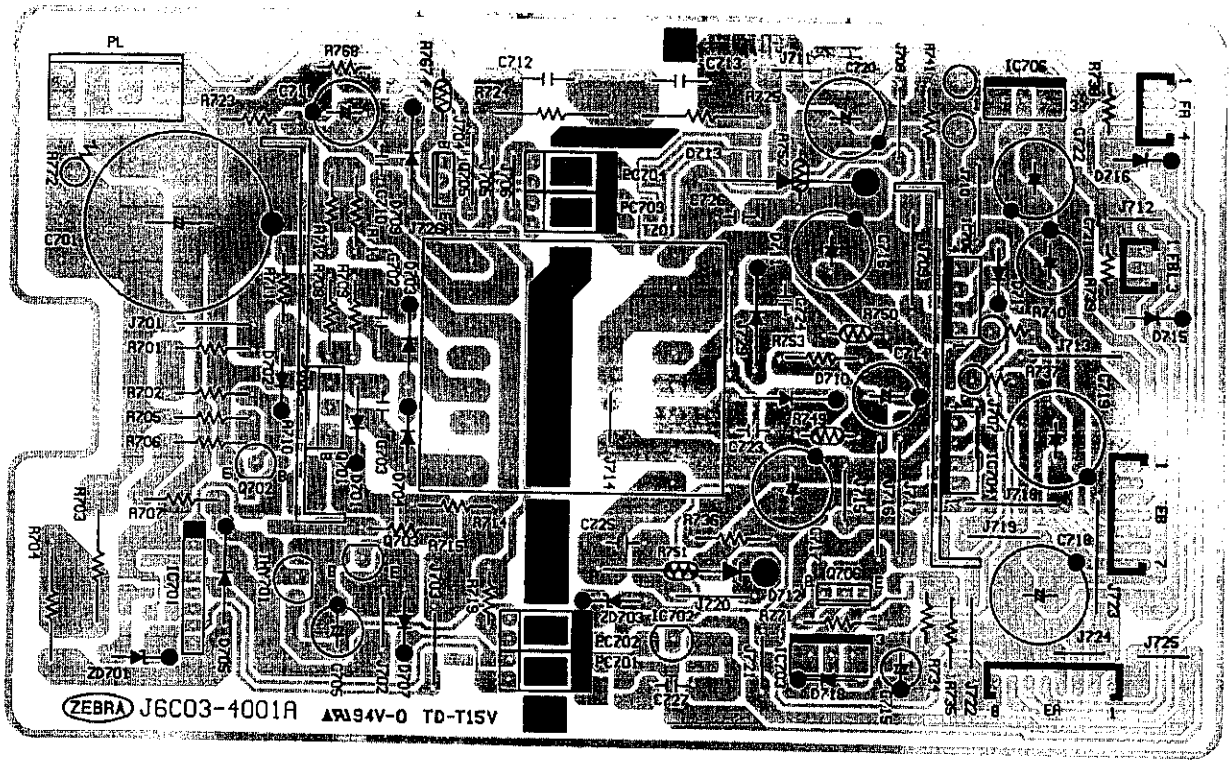
Sub Unit (Component Side) /
Untereinheit (Bestückungsseite)
辅助装置印刷电路板（部件装备侧）

10	11	12	13	14	15	16	17	18	19

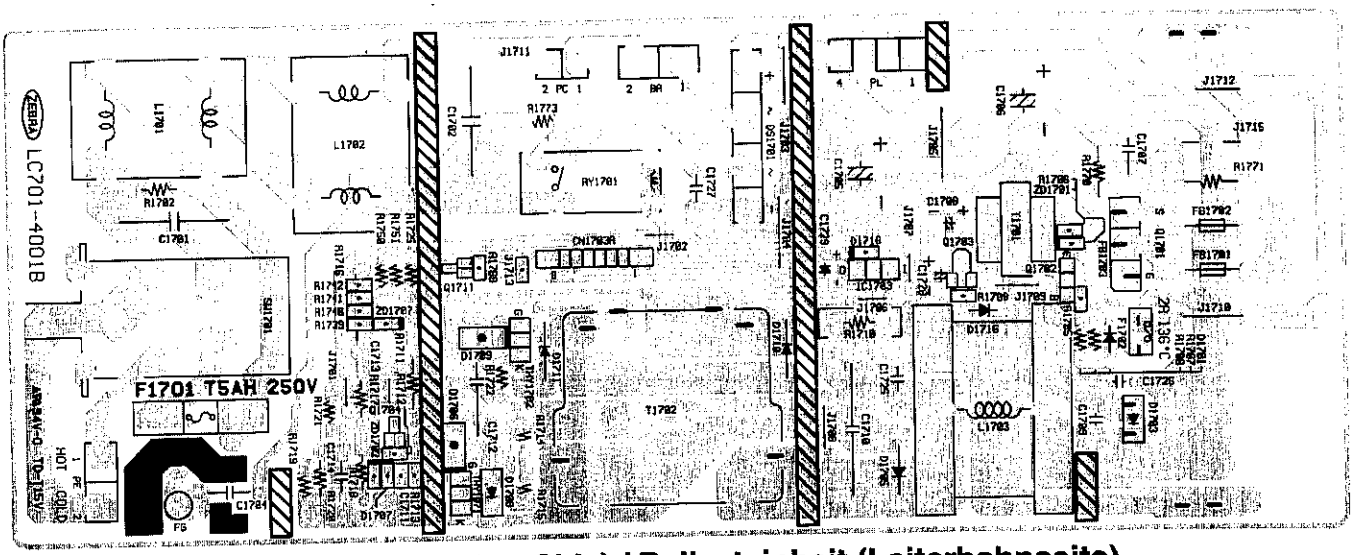
- **Old Unit**



Power Unit (Wiring Side) /
Netzeinheit (Leiterbahnseite)
电源装置印刷电路板（线路贴置侧）

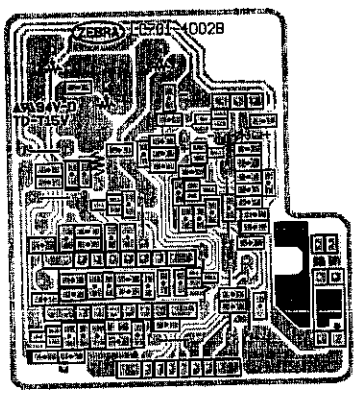


Power Unit (Component Side) /
Netzeinheit (Bestückungsseite)
电源装置印刷电路板（部件装备侧）



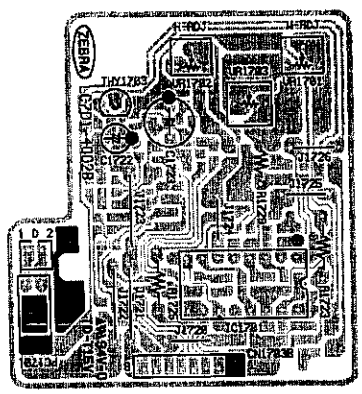
Ballast Unit (Wiring Side) / Ballasteinheit (Leiterbahnseite)

镇流器印刷电路板（线路贴置侧）



Ballast Sub Unit (Wiring Side)/
Ballast-Unterelinheit (Leiterbahnseite)

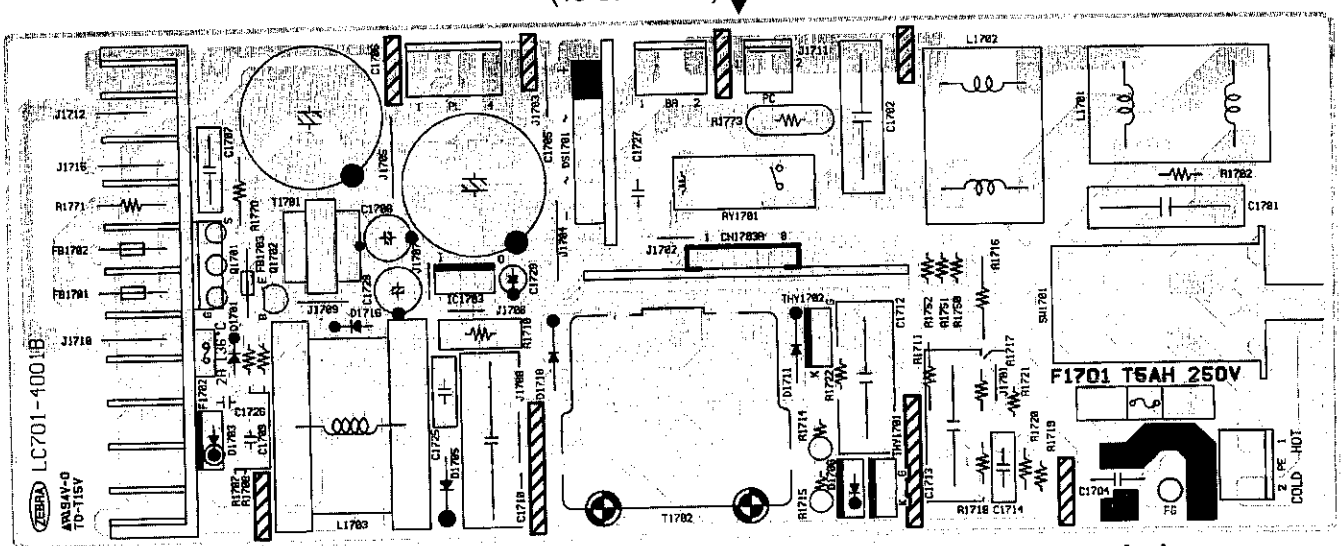
镇流器用辅助印刷电路板（线路贴置侧）



Ballast Sub Unit (Component Side)/
Ballast-Unterelinheit (Bestückungsseite)

镇流器用辅助印刷电路板（部件装备侧）

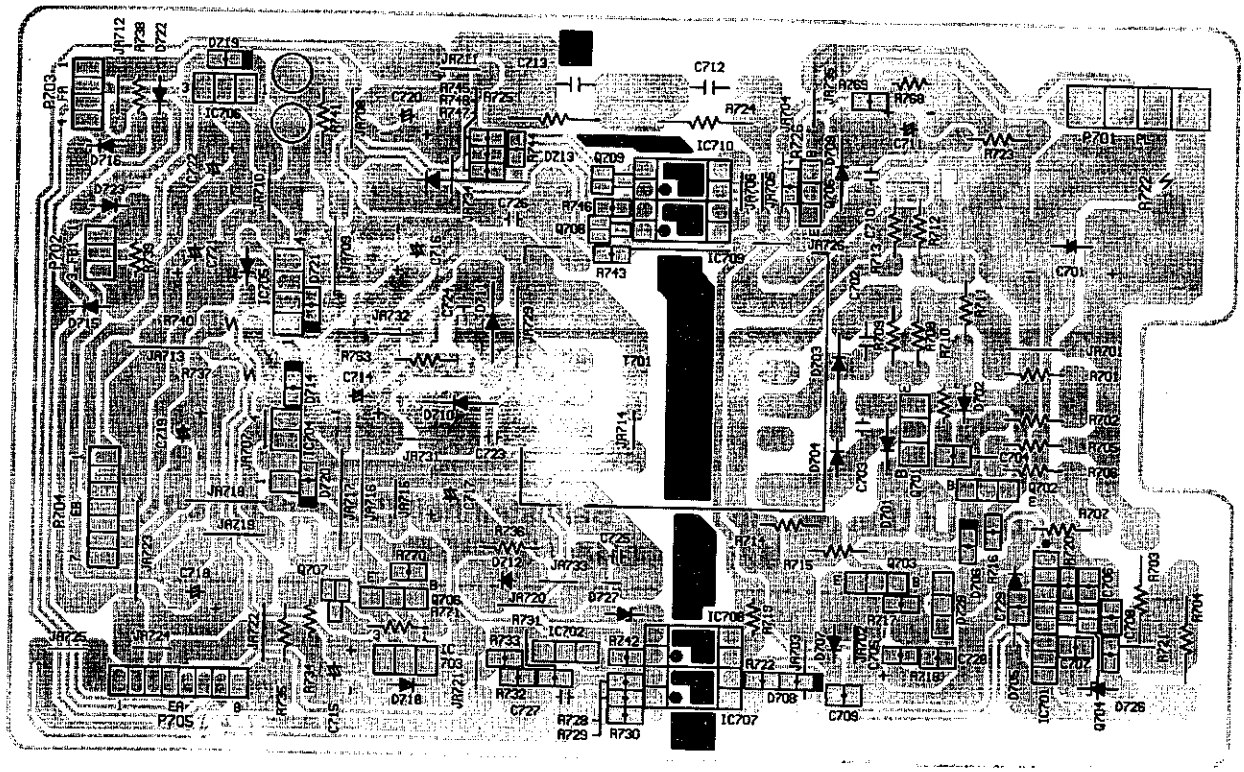
(To CN1703A)



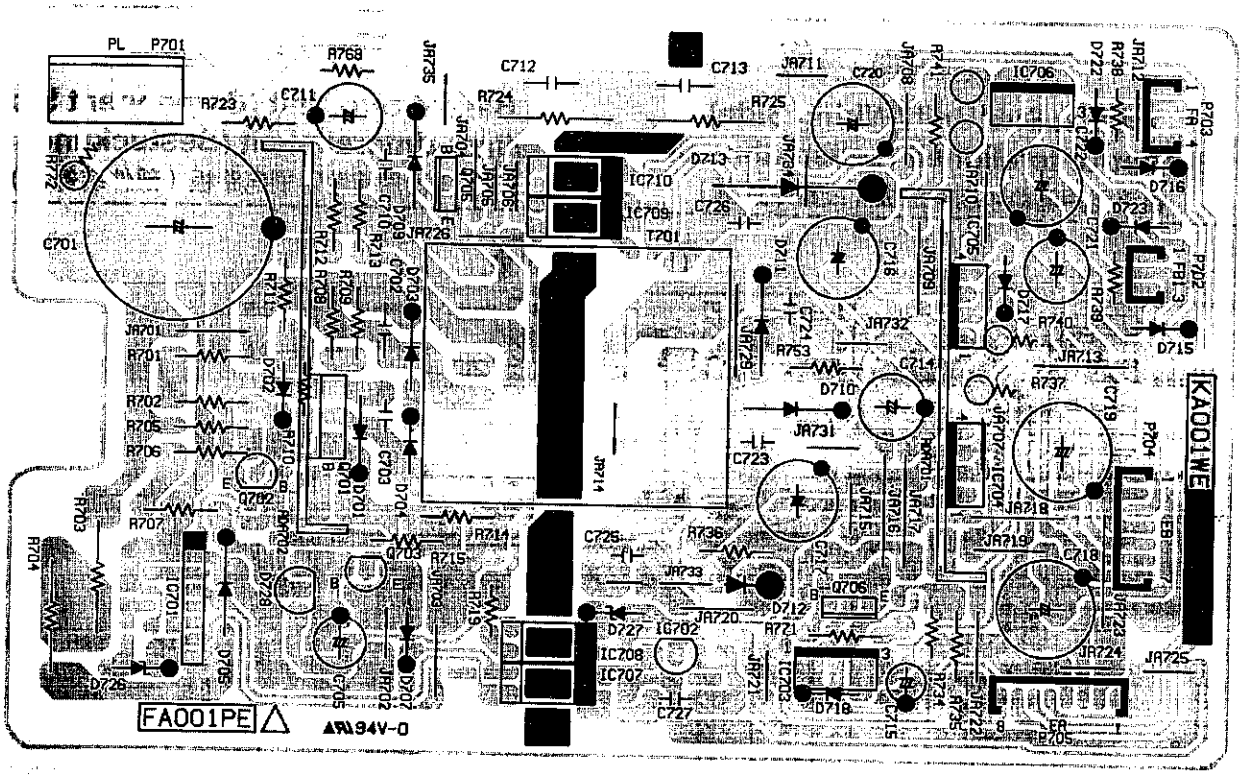
Ballast Unit (Component Side) / Ballasteinheit (Bestückungsseite)

镇流器印刷电路板（部件装备侧）

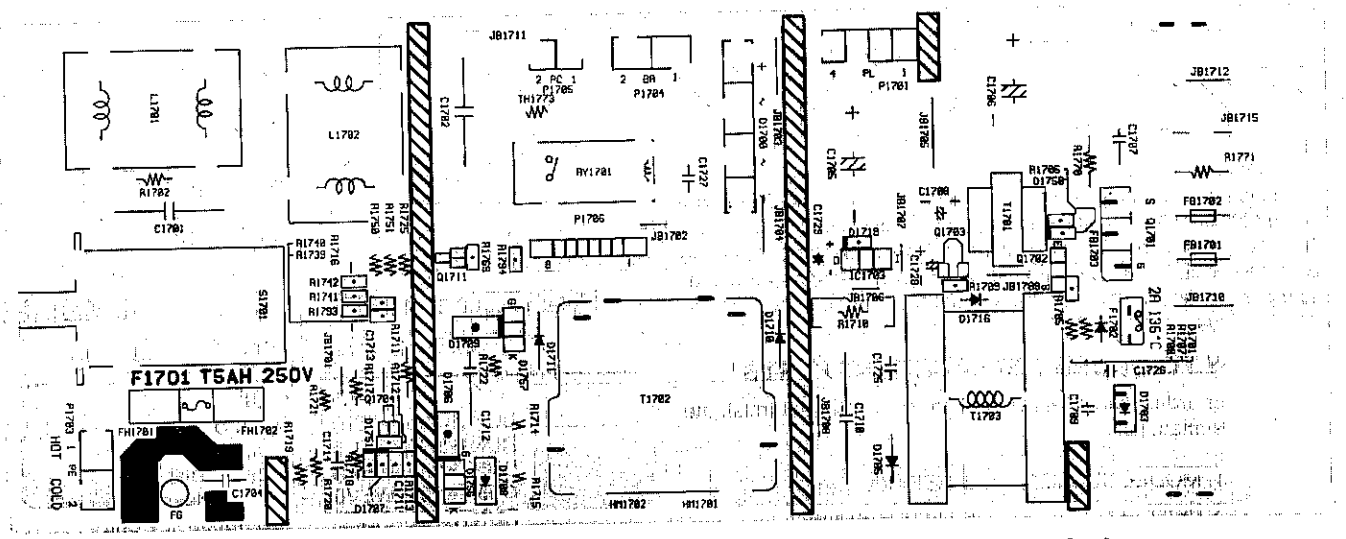
• New Unit



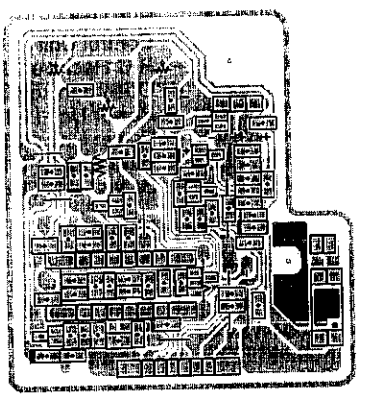
Power Unit (Wiring Side) /
Netzeinheit (Leiterbahnseite)
电源装置印刷电路板（线路贴置侧）



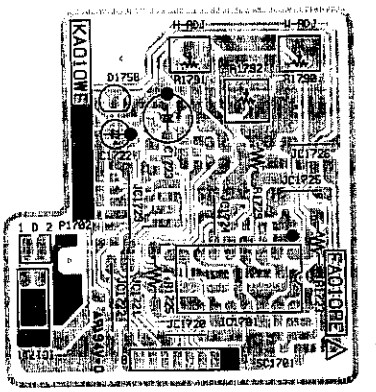
Power Unit (Component Side) /
Netzeinheit (Bestückungsseite)
电源装置印刷电路板（部件装备侧）



Ballast Unit (Wiring Side) / Ballasteinheit (Leiterbahnseite)
镇流器印刷电路板（线路贴置侧）

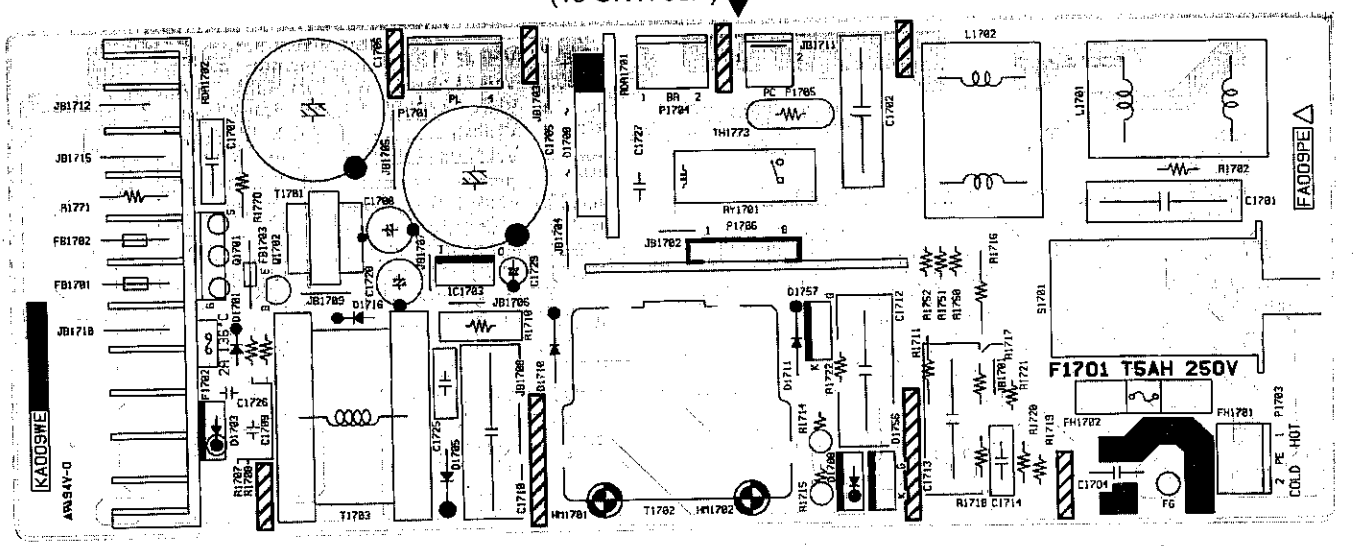


Ballast Sub Unit (Wiring Side)/
Ballast-Unterelinheit (Leiterbahnseite)
镇流器用辅助印刷电路板（线路贴置侧）



Ballast Sub Unit (Component Side)/
Ballast-Unterelinheit (Bestückungsseite)
镇流器用辅助印刷电路板（部件装备侧）

(To CN1703A)



Ballast Unit (Component Side) / Ballasteinheit (Bestückungsseite)
镇流器印刷电路板（部件装备侧）

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION
5. CODE	6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.	2. REF. NR.
3. ERSATZTEIL NR.	4. BESCHREIBUNG
5. KODE	6. QUANTITÄT

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

更换零件表

更换零件

本维修手册对具有特别安全要求的零件均用标记加以识别：
在此更换零件表中，具有特别安全要求的电路元件均用 ⚠ 标记，以便注意识别。更换零件时，为了用户的安全以及液晶投影机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号	2. 参考编号
3. 零件编号	4. 零件名称
5. 代号	6. 数量

附★记号为备用部件的交货部门

Ref. No.	Part No.	★	Description	Code

LCD PANEL

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	DLCPP0064WEV0	R	LCD Module Unit	CN

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

XV-C100A

	DUNTK9001WEV0	–	Main Unit	—
	DUNTK9002WEV0	–	Sub Unit	—
	DUNTK9003WEV0	–	Control Unit	—
	DUNTK9004WEV0	–	R/C Reciever Unit	—
	RUNTK0624CEZZ	–	Operation key Unit	—
	DUNTKA001WEV2	–	Power Unit	—
	DUNTKA009WEV0	–	Ballast Unit	—

XV-C100M

	DUNTK9001WEV1	–	Main Unit	—
	DUNTK9002WEV1	–	Sub Unit	—
	DUNTK9003WEV1	–	Control Unit	—
	DUNTK9004WEV1	–	R/C Reciever Unit	—
	RUNTK0624CEZZ	–	Operation key Unit	—
	RDENC0266CEZZ	–	Power Unit (1-134 Set)	—
	DUNTKA001WEV2	–	Power Unit (135-)	—
	RDENC0265CEZZ	–	Ballast Unit (1-134 Set)	—
	DUNTKA009WEV0	–	Ballast Unit (135-)	—

XV-C100E

	DUNTK9001WEV4	–	Main Unit	—
	DUNTK9002WEV4	–	Sub Unit	—
	DUNTK9003WEV4	–	Control Unit	—
	DUNTK9004WEV4	–	R/C Reciever Unit	—
	RUNTK0624CEZZ	–	Operation key Unit	—
	RDENC0266CEZZ	–	Power Unit (1-28 Set)	—
	DUNTKA001WEV2	–	Power Unit (29-)	—
	RDENC0262CEZZ	–	Ballast Unit (1-28 Set)	—
	DUNTKA009WEV1	–	Ballast Unit (29-)	—

DUNTK9001WEV0/V1/V4
MAIN UNIT

INTEGRATED CIRCUITS

IC301	VHiM51132FP-1	J	M51132FP	AL
IC302	VHiNJ3404AM-1	J	NJM3404AM	AF
IC303	VHiTDA7052V-1	J	TDA7052A	AH
IC304	VHiNJM2235M-1	J	NJM2235M	AE
IC305	VHiNJM2235M-1	J	NJM2235M	AE
IC306	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC307	VHiPQ09SZ11-1	J	PQ09SZ1U	AG
IC401	VHiNJM2283F-1	J	NJM2283M	AF
IC501	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC502	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC503	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC504	VHiTC7S86F/-1	J	TC7S86F	AD
IC801	VHiTDA8375A-3	J	TDA8375AH/N3	BA
IC802	VHiTDA4665T5E	J	TDA4665	AN
IC803	VHiTDA8395T-3	J	TDA8395T	AR
IC804	VHiTDA4565/-1	J	TDA4565/V6	AN
IC805	VHiNJM2060M-1	J	NJM2060M	AE
IC901	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC902	VHiNJ2233BM-1	J	NJM2233BM	AE
IC904	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1501	VHiiR3Y12B/-1	J	IR3Y12B	AU
IC1502	VHiNJM2286M-1	J	NJM2286M	AE
IC1503	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC1504	VHiTC7S32F/-1	J	TC7S32F	AC
IC1505	VHiTC4W53F/-1	J	TC4W53F	AE
IC3003	VHiCXA1839Q-1	J	CXA1839	AZ

DUNTK9001WEV0/V1/V4
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
TRANSISTORS				
Q301	VSRT1N241U/-1	J	RT1N241U	AB
Q401	VS2SC5384C/-1	J	2SC5384C	AB
Q801	VS2PB709AR/-1	J	2PB709AR	AB
Q802	VS2PB709AR/-1	J	2PB709AR	AB
Q803	VS2PB709AR/-1	J	2PB709AR	AB
Q806	VS2PD601AR/-1	J	2PD601AR	AB
Q808	VS2PD601AR/-1	J	2PD601AR	AB
Q813	VSUPUMZ1///-1	J	UPUMZ1	AC
Q814	VS2PD601AR/-1	J	2PD601AR	AB
Q815	VS2PD601AR/-1	J	2PD601AR	AB
Q816	VS2PD601AR/-1	J	2PD601AR	AB
Q819	VS2PD601AR/-1	J	2PD601AR	AB
Q820	VS2PB709AR/-1	J	2PB709AR	AB
Q821	VSiMX2/////-1	J	iMX2	AB
Q822	VSDTC144EK/-1	J	DTC144EK	AB
Q823	VS2PD601AR/-1	J	2PD601AR	AB
Q824	VSUPUMZ1///-1	J	UPUMZ1	AC
Q825	VSUPUMT1///-1	J	UPUMT1	AC
Q826	VSUPUMZ1///-1	J	UPUMZ1	AC
Q827	VSUPUMZ1///-1	J	UPUMZ1	AC
Q1501	VS2PB709AR/-1	J	2PB709AR	AB
Q1502	VS2PD601AR/-1	J	2PD601AR	AB
Q1503	VS2PB709AR/-1	J	2PB709AR	AB
Q1504	VS2PD601AR/-1	J	2PD601AR	AB
Q1505	VS2PB709AR/-1	J	2PB709AR	AB
Q1506	VS2PD601AR/-1	J	2PD601AR	AB
Q3001	VS2PD601AR/-1	J	2PD601AR	AB
Q3002	VSDTC144EK/-1	J	DTC144EK	AB
Q3003	VS2PD601AR/-1	J	2PD601AR	AB
Q3004	VS2PD601AR/-1	J	2PD601AR	AB
Q3005	VS2PD601AR/-1	J	2PD601AR	AB
Q3006	VS2PD601AR/-1	J	2PD601AR	AB
Q3007	VS2PD601AR/-1	J	2PD601AR	AB
Q3010	VS2PD601AR/-1	J	2PD601AR	AB
Q3011	VS2PD601AR/-1	J	2PD601AR	AB
Q3012	VS2PB709AR/-1	J	2PB709AR	AB
Q3013	VS2PD601AR/-1	J	2PD601AR	AB
Q3020	VSUPUMZ1///-1	J	UPUMZ1	AC
Q3021	VS2SC5384C/-1	J	2SC5384C	AB
Q3022	VSDTC144EK/-1	J	DTC144EK	AB
DIODES				
D301	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D302	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D303	VHDDAN202K/-1	J	Diode	AB
D304	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D305	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D306	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D307	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D308	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D309	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D310	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D311	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D312	VHDDAN202K/-1	J	Diode	AB
D401	VHDMA153///-1	J	Diode	AB
D402	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D403	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D405	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D406	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D407	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D408	RH-EX0540CEZZ	J	Zener Diode 9V	AB
D801	VHDMA152WA/-1	J	Diode	AA
D802	VHDDAN202K/-1	J	Diode	AB
D903	VHDDAN202K/-1	J	Diode	AB
D904	VHDDAN202K/-1	J	Diode	AB
D1501	VHDMA152WA/-1	J	Diode	AA
PACKAGED CIRCUITS				
X801	RCRSB0009PEZZ	J	Crystal	AL
X802	RCRSB0008PEZZ	J	Crystal	AH

Ref. No.	Part No.	★	Description	Code
COILS				
DL401	RCiLZ0964CEZZ	J	Coil	AS
L403	VP-1M270J3R8N	J	Peaking 27µH	AC
L801	VPAWM180J3R6N	J	Peaking 18µH	AD
L802	VP-1M330J4R2N	J	Peaking 33µH	AC
L803	VP-1M120J1R9N	J	Peaking 12µH	AC
L804	VP-1M120J1R9N	J	Peaking 12µH	AC
L1501	VP-1M101J7R7N	J	Peaking 100µH	AC
L1502	RCiLC0055CEZZ	J	Coil	AD
CONTROL				
R861	RVR-M4437CEZZ	J	68k(B) AGC	AD

CAPACITORS

[M-Poly.···Metalized Polypro Film]

C301	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C302	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C303	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C304	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C305	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C306	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C307	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C308	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C309	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C310	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C311	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C312	RC-EZ0417CEZZ	J	150	16V	Electrolitic	AD
C313	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C314	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C315	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C316	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C317	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C318	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C319	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C320	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C321	VCCCCY1HH561J	J	560p	50V	Ceramic	AB
C322	VCCCCY1HH561J	J	560p	50V	Ceramic	AB
C323	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C324	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C325	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C326	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C330	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C331	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C332	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C333	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C401	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C402	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C403	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C404	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C405	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C406	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C408	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C409	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C410	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C411	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C412	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C415	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C418	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C420	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C422	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C423	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C501	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C502	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C503	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C504	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C505	VCFYEC1CM104J	J	0.1	16V	M-Poly.	AD
C506	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C507	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C508	VCCCCY1EH821J	J	820p	25V	Ceramic	AB
C509	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C510	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C511	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C801	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C802	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C803	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA

DUNTK9001WEV0/V1/V4

MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C804	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C805	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C806	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C807	VCKYTV1HF224Z	J	0.22	50V	Ceramic	AC
C808	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C809	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C810	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C811	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C812	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C813	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C814	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C815	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C816	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C817	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C818	VCFYEC1CM334J	J	0.33	16V	M-Poly.	AE
C819	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C820	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C821	VCFYEC1CM334J	J	0.33	16V	M-Poly.	AE
C822	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C823	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C824	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C825	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C826	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C827	VCE9PF1CW475M	J	4.7	16V	Elect.(N.P)	AC
C828	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C829	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C830	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C831	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C832	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C833	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C834	VCFRED1HM472J	J	4700p	50V	M-Poly.	AD
C835	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C836	VCKYTV1HF224Z	J	0.22	50V	Ceramic	AC
C837	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C838	VCKYTV1HF224Z	J	0.22	50V	Ceramic	AC
C839	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C840	VCFYEC1CM223J	J	0.022	16V	M-Poly.	AC
C841	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C842	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C843	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C844	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C845	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C848	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C849	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C850	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C852	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C853	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C860	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C861	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C864	VCE9PF1CW475M	J	4.7	16V	Elect.(N.P)	AC
C865	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C867	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C868	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C869	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C870	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C871	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C872	VCEAPF1HW106M	J	10	50V	Electrolytic	AB
C873	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C874	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C875	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C876	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C877	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C878	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C879	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C880	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C881	VCFYFA1HA274J	J	0.27	50V	M-Poly.	AD
C882	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C883	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C884	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C885	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C886	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C887	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C888	VCFRED1HM222J	J	2200p	50V	M-Poly.	AC
C889	VCFYEC1CM102J	J	1000p	16V	M-Poly.	AC
C890	VCFYFA1HA274J	J	0.27	50V	M-Poly.	AD
C891	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C893	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C901	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C902	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C903	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C904	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C905	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C906	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C907	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C922	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1501	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1502	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1504	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1505	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1506	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1507	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1508	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1509	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1510	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1511	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1512	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1513	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1514	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1515	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1516	RC-EZ0363CEZZ	J	330	6.3V	Electrolytic	AC
C1517	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1518	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1519	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C1520	VCKYCY1HB153K	J	0.015	50V	Ceramic	AA
C1521	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1522	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C1523	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1524	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1525	VCCCCY1EH821J	J	820p	25V	Ceramic	AB
C1526	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C1527	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1528	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1529	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C1530	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1531	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C1535	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3001	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C3002	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C3008	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3009	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3010	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3011	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3012	VCE9PF1HW225M	J	2.2	50V	Elect.(N.P)	AC
C3013	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3014	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3015	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C3016	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3017	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3018	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3019	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3020	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3021	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3022	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3024	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3028	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3030	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3031	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C3032	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C3033	VCCCCY1HH271J	J	270p	50V	Ceramic	AA

RESISTORS

R301	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R303	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R305	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R306	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R307	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R308	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R309	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R310	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R311	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R312	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R313	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R314	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R315	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R316	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R317	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R318	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R319	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R320	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA
R321	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA
R322	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R323	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R324	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R325	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R326	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R327	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R328	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R329	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R330	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R331	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R332	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R335	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R336	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R337	VRN-CY1JF103D	J	10k 1/16W Metal Film	AA
R338	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R339	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R340	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R341	VRN-CY1JF392D	J	3.9k 1/16W Metal Film	AA
R342	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R343	VRS-VV3DB180J	J	18 2W Metal Oxide	AA
R344	VRS-VV3DB180J	J	18 2W Metal Oxide	AA
R360	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R361	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R363	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R364	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R366	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R397	VRS-CA1JF000J	J	0 1/16W Metal Oxide	AB
R401	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R402	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R403	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R404	VRS-CY1JF1R0J	J	1.0 1/16W Metal Oxide	AA
R405	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R406	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R407	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R408	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R409	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R410	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R411	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R412	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R413	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R414	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R415	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R416	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R417	VRS-TX2HF680J	J	68 1/2W Metal Oxide	AA
R419	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R420	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R421	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R430	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R431	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R501	VRN-CY1JF752D	J	7.5k 1/16W Metal Film	AA
R502	VRN-CY1JF153D	J	15k 1/16W Metal Film	AA
R504	VRN-CY1JF272D	J	2.7k 1/16W Metal Film	AB
R505	VRN-CY1JF273D	J	27k 1/16W Metal Film	AB
R506	VRN-CY1JF103D	J	10k 1/16W Metal Film	AA
R507	VRN-CY1JF682D	J	6.8k 1/16W Metal Film	AB
R508	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R509	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R515	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R516	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R517	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R518	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R519	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R521	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R801	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R802	VRS-TX2HF100J	J	10 1/2W Metal Oxide	AA
R803	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R804	VRS-TX2HF270J	J	27 1/2W Metal Oxide	AB
R805	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R806	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R807	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R809	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R810	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R811	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R812	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R813	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R814	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R815	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R816	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R817	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R818	VRS-CY1JF334J	J	330k 1/16W Metal Oxide	AA
R819	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R820	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R821	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R824	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R827	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R830	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R831	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R832	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R833	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R834	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R835	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R836	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R837	VRS-CY1JF564J	J	560k 1/16W Metal Oxide	AA
R838	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R839	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R840	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R841	VRS-CY1JF182J	J	1.8k 1/16W Metal Oxide	AA
R842	VRN-CY1JF153D	J	15k 1/16W Metal Film	AA
R845	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R846	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R847	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R848	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R849	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R850	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R851	VRN-CY1JF391D	J	390 1/16W Metal Film	AB
R852	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R853	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R854	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R855	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R856	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R857	VRS-CY1JF271J	J	270 1/16W Metal Oxide	AA
R858	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R859	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R860	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R862	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R863	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R864	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R865	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R866	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R867	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R868	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R869	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R870	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R871	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R872	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R873	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R874	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R875	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R876	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R877	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R878	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R879	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R880	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R881	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R882	VRN-CY1JF332D	J	3.3k 1/16W Metal Film	AA
R883	VRN-CY1JF152D	J	1.5k 1/16W Metal Film	AB

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R884	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R885	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R886	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R887	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R888	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R889	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R890	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R891	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R892	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R893	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R894	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R895	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R896	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R897	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R898	VRS-CY1JF271J	J	270 1/16W Metal Oxide	AA
R899	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R900	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R901	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R902	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R903	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R904	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R906	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R907	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R908	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R909	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R910	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R911	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R912	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R913	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R914	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R915	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R916	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R917	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R918	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R919	VRS-TX2HF8R2J	J	8.2 1/2W Metal Oxide	AA
R920	VRS-TX2HF100J	J	10 1/2W Metal Oxide	AA
R921	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R923	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R924	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R925	VRS-CY1JF121J	J	120 1/16W Metal Oxide	AA
R929	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R930	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R932	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R933	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R935	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R936	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R937	VRS-CA1JF101J	J	100 1/16W Metal Oxide	AA
R938	VRS-CB1JF152J	J	1.5k 1/16W Metal Oxide	AC
R939	VRS-CB1JF681J	J	680 1/16W Metal Oxide	AC
R940	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1501	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1502	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1503	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1504	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R1505	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R1506	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R1508	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R1509	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R1511	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R1512	VRS-CY1JF823J	J	82k 1/16W Metal Oxide	AA
R1513	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1514	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1515	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1516	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R1517	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1518	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R1519	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1520	VRS-CY1JF243F	J	24k 1/16W Metal Oxide	AA
R1521	VRS-CY1JF243F	J	24k 1/16W Metal Oxide	AA
R1522	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1523	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1524	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1525	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R1526	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1527	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R1528	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1529	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1530	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R1531	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R1532	VRS-CY1JF271J	J	270 1/16W Metal Oxide	AA
R1533	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1534	VRS-CY1JF272F	J	2.7k 1/16W Metal Oxide	AA
R1535	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R1538	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1539	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R1540	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R1541	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1542	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1543	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1544	VRN-CY1JF272D	J	2.7k 1/16W Metal Film	AB
R1546	VRN-CY1JF123D	J	12k 1/16W Metal Film	AB
R1547	VRS-CY1JF185J	J	1.8M 1/16W Metal Oxide	AE
R1548	VRS-CY1JF185J	J	1.8M 1/16W Metal Oxide	AE
R1549	VRS-CY1JF185J	J	1.8M 1/16W Metal Oxide	AE
R1551	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1552	VRS-TV1JD5R6J	J	5.6 1/16W Metal Oxide	AA
R1553	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R1554	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R1555	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1556	VRS-TV1JD5R6J	J	5.6 1/16W Metal Oxide	AA
R1557	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R1558	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R1559	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1560	VRS-TV1JD5R6J	J	5.6 1/16W Metal Oxide	AA
R1561	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R1562	VRS-CY1JF394J	J	390k 1/16W Metal Oxide	AA
R1563	VRS-CA1JF563J	J	56k 1/16W Metal Oxide	AA
R1565	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R3001	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3002	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3003	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3004	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3006	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3007	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3008	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3009	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3010	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3011	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3012	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3013	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3014	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3016	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3017	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3018	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3019	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3020	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3021	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3022	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3025	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3026	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3028	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3031	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3033	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3039	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3040	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3041	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3042	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3043	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R3044	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3045	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3054	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3061	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3062	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3064	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3065	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3066	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3067	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3074	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

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MAIN UNIT (Continued)

R3080	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R3081	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R3082	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide		AA
R3083	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide		AA
R3084	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide		AA
R3085	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide		AA
R3086	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R3087	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide		AA
R3088	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide		AA

SWITCH

S801	QSW-K0065GEZZ	J	Switch	AC

MISCELLANEOUS PARTS

FB301	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB302	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB303	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB304	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB305	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB306	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB307	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB308	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB309	RBLN-0062TAZZ	J	Ferrite Bead	AB
FB401	RBLN-0063TAZZ	J	Ferrite Bead	AB
FB422	RBLN-0063TAZZ	J	Ferrite Bead	AB
FB423	RBLN-0063TAZZ	J	Ferrite Bead	AB
FB424	RBLN-0063TAZZ	J	Ferrite Bead	AB
J301	QJAKJ0047CEZZ	J	Headphone Jack	AD
J401	QSOCD0432CEZZ	J	S-Video Terminal	AE
J402	QJAKG0037CEZZ	J	A/V Input	AF
P301	QPLGN0278GEZZ	J	Plug, 2-pin (SP)	AA
P803	QPLGN0864TAZZ	J	Plug, 8-pin	AD
P904	QPLGN0179FJZZ	J	Plug, 7-pin (EB)	AD
SC402	QSOCN3078TAZZ	J	Socket, 30-pin (TA)	AE
SC1501	QSOCN0199FJZZ	J	Socket, 20-pin (CA)	AE
	QCNW-5036CEZZ	J	Connecting Cord	AM

Ref. No.	Part No.	★	Description	Code

DUNTK9002WEV0/V1/V4
SUB UNIT

INTEGRATED CIRCUITS

IC2001	RH-iX0602PEZZ	R	M37207MF-131FP	BB
IC2002	VHi24LC2BiN-1	J	24LC02B-I/SN	AG
IC2003	VHiPST529CM-1	J	PST529CMT	AE
IC2004	VHiNJU7002M-1	J	NJU7002M	AL
IC2005	VHiM62352GP-1	J	M62352GP	AQ
IC2006	VHiNJM2903M-1	J	NJM2903M	AF

TRANSISTORS

Q2001	VS2SC5384C/-1	J	2SC5384C	AB
Q2002	VS2SC5384C/-1	J	2SC5384C	AB
Q2003	VS2SC3198-G-1	J	2SC3198(G)	AA
Q2004	VS2SC5384C/-1	J	2SC5384C	AB
Q2005	VS2SC5384C/-1	J	2SC5384C	AB
Q2006	VSRT1N141U/-1	J	RT1N141U	AB
Q2008	VS2SA1989R/-1	J	2SA1989R	AB
Q2009	VSRT1N241U/-1	J	RT1N241U	AB
Q2010	VS2SC5384C/-1	J	2SC5384C	AB
Q2011	VS2SA1989R/-1	J	2SA1989R	AB
Q2012	VSRT1P441U/-1	J	RT1P441U	AB

DIODES

D2001	RH-EX0515CEZZ	J	Zener Diode 5.1V	AB
D2002	VHDDAN202K/-1	J	Diode	AB
D2004	VHDDAN202K/-1	J	Diode	AB
D2005	RH-EX0251CEZZ	J	Zener Diode 6.2V	AB
D2006	RH-EX0251CEZZ	J	Zener Diode 6.2V	AB
D2007	RH-EX0251CEZZ	J	Zener Diode 6.2V	AB
D2008	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2009	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2010	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2011	VHDDAN202K/-1	J	Diode	AB
D2012	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2013	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2014	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2015	RH-EX0734CEZZ	J	Zener Diode 12V	AD
D2016	RH-EX0734CEZZ	J	Zener Diode 12V	AD

FILTER AND COILS

CF2001	RFiLC0406CEZZ	J	Filter	AD
L2001	VPAWM100J2R6N	J	Peaking 10µH	AC
L2003	RCiLB0122CEZZ	J	Oscillation Coil	AF

CAPACITORS

C2004	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2005	VCEAPX0JW337M	J	330	6.3V	Electrolytic	AD
C2006	VCEAPX0JW337M	J	330	6.3V	Electrolytic	AD
C2007	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2009	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C2011	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2012	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2013	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C2014	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2015	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2016	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C2017	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2018	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C2021	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2022	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2023	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2024	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2025	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2026	VCEAPX0JW337M	J	330	6.3V	Electrolytic	AD
C2027	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2028	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2032	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2033	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2035	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2036	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2037	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2038	VCCCCY1HH101J	J	100p	50V	Ceramic	AA

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SUB UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C2039	VCEAPX0JW337M	J	330	6.3V	Electrolytic	AD

RESISTORS

R2002	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2004	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2005	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2008	VRS-TX2HF820J	J	82	1/2W	Metal Oxide	AB
R2009	VRS-CB1JF681J	J	680	1/16W	Metal Oxide	AC
R2010	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2011	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R2012	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2013	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2014	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2015	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2016	VRN-CY1JF273D	J	27k	1/16W	Metal Film	AB
R2017	VRN-CY1JF563D	J	56k	1/16W	Metal Film	AB
R2018	VRS-CY1JF824J	J	820k	1/16W	Metal Oxide	AA
R2019	VRN-CY1JF682D	J	6.8k	1/16W	Metal Film	AB
R2020	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2021	VRS-CA1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2023	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R2024	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2025	VRS-CA1JF331J	J	330	1/16W	Metal Oxide	AA
R2029	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2031	VRS-CA1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2033	VRS-CA1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2035	VRS-CY1JF513F	J	51k	1/16W	Metal Oxide	AA
R2036	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R2037	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R2038	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2039	VRS-CY1JF163F	J	16k	1/16W	Metal Oxide	AA
R2040	VRS-CY1JF163F	J	16k	1/16W	Metal Oxide	AA
R2041	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2042	VRS-CB1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2043	VRS-CY1JF275J	J	2.7M	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2048	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2049	VRS-CB1JF331J	J	330	1/16W	Metal Oxide	AC
R2052	VRS-CY1JF824J	J	820k	1/16W	Metal Oxide	AA
R2055	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2056	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R2057	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2058	VRS-CB1JF331J	J	330	1/16W	Metal Oxide	AC
R2059	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2060	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2061	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2063	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2064	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R2065	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2066	VRS-CY1JF513F	J	51k	1/16W	Metal Oxide	AA
R2067	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2071	VRS-CA1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2074	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2075	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2076	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2077	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R2079	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2080	VRS-CB1JF392J	J	3.9k	1/16W	Metal Oxide	AC
R2081	VRS-CA1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2083	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2084	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R2085	VRS-CB1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2093	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R2094	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R2096	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R2097	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2098	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2101	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2102	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2103	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2104	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2105	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2106	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R2107	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2110	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R2111	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R2112	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R2113	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2114	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2115	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2116	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2117	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2118	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2119	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2120	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2121	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2125	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2126	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2127	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R2128	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R2129	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2130	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R2131	VRS-TW2ED561J	J	560	1/4W	Metal Oxide	AA
R2133	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2134	VRN-CY1JF393D	J	39k	1/16W	Metal Film	AB
R2136	VRN-CY1JF563D	J	56k	1/16W	Metal Film	AB
R2139	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2141	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2142	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2143	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2144	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2145	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2146	VRS-CA1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2147	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2148	VRS-CY1JF185J	J	1.8M	1/16W	Metal Oxide	AE
R2503	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R2504	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA

SWITCH

S2001	QSW-K0065GEZZ	J	ADJ Switch	AC

MISCELLANEOUS PARTS

FB2001	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB2050	RBLN-0062TAZZ	J	Ferrite Bead	AB
J2001	QJAKG0046CEZZ	J	Video Input	AG
J2002	QJAKF0051CEZZ	J	Audio Input	AE
P2001	QPLGN0174FJZZ	J	Plug, 2-pin (LL)	AC
P2002	QPLGN0174FJZZ	J	Plug, 2-pin (LF)	AC
P2003	QPLGN0180FJZZ	J	Plug, 8-pin (EA)	AD
P2004	QPLGN0395FJZZ	J	Plug, 2-pin (U)	AC
P2005	QPLGN0174FJZZ	J	Plug, 2-pin (Q)	AC
P2007	QPLGN0564TAZZ	J	Plug, 5-pin (FA)	AC
P2010	QPLGN0175FJZZ	J	Plug, 3-pin (D)	AD
P2011	QPLGN0320REZZ	J	Plug, 3-pin (RA)	AA
P2012	QPLGN1463TAZZ	J	Plug, 14-pin (TB)	AE
SC2002	QSOCN3078TAZZ	J	Socket, 30-pin (TA)	AE
SC2004	QSOCN1040TAZZ	J	Socket, 10-pin (KE)	AF

Ref. No.	Part No.	★	Description	Code

DUNTK9003WEV0/V1/V4
CONTROL UNIT

INTEGRATED CIRCUITS

IC1603	VHiTC4W53F/-1	J	TC4W53F	AE
IC1606	VHiETM3070T-1	J	ETM3070T0A	AX
IC1607	VHiTC4SU11F-1	J	TC4SU11F	AD
IC1608	VHiTC4SU11F-1	J	TC4SU11F	AD
IC1611	VHiNJM2107F-1	J	NJM2107F	AE

TRANSISTOR

Q1601	VSDTC144EK/-1	J	DTC144EK	AB

DIODES

D1602	VHD1SV217//-1	J	Diode	AB
D1603	VHD1SV217//-1	J	Diode	AB

COILS

L1601	VP-1M3R9J1R0N	J	Peaking 3.9µH	AC
L1602	VP-1M4R7J1R2N	J	Peaking 4.7µH	AB

CONTROLS

R1402	RVR-M8001TAZZ	J	4.7k(B)	AC
R1602	RVR-M7905TAZZ	J	47k(B)	AC
R1616	RVR-M7905TAZZ	J	47k(B)	AC

CAPACITORS

C1401	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1601	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1604	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C1605	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1607	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C1610	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1611	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1612	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1613	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1614	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1615	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1616	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1617	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1618	VCEAPF1CW336M	J	33	16V	Electrolytic	AB
C1619	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1620	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1622	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1623	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1624	VCCCCY1HH561J	J	560p	50V	Ceramic	AB

RESISTORS

R1401	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R1403	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R1601	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1603	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1604	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1605	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1606	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1608	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R1609	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1610	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1611	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1612	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1613	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1614	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1615	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1617	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1618	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1619	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R1620	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R1625	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1635	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1636	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1637	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1640	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1642	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R1643	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1644	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1645	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1646	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1648	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1650	VRS-CB1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1651	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1653	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1654	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB1652	RBLN-0051TAZZ	J	Ferrite Bead	AC
FB1654	RBLN-0051TAZZ	J	Ferrite Bead	AC
FB1655	RBLN-0051TAZZ	J	Ferrite Bead	AC
P1401	QPLGN0664TAZZ	J	Plug, 6-pin	AD
SC1401	QSOCN0352FJZZ	J	Socket, 26-pin (LD)	AE
SC1601	QSOCN0224FJZZ	J	Socket, 20-pin (CA)	AE

DUNTK9004WEV0/V1/V4
INFRARED R/C RECEIVER UNIT

CAPACITORS

C2501	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2502	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2503	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

RESISTORS

R2501	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R2502	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R2506	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

P2501	QPLGN0364TAZZ	J	Plug, 3-pin (RA)	AC
RMC2502	RRMCU0229CEZZ	J	Infrared R/C Receiver	AH
	PSLDC0001PEFW	R	Shield	AD

Ref. No.	Part No.	★	Description	Code

RUNTK0624CEZZ
OPERATION KEY UNIT

DIODES

LED1	93G0276-700020	J	Red LED, Temperature Warning indicator	AE
LED2	93G0025-110010	J	Red/Green LED, Lamp Replacement indicator	AF
LED3	93G0025-110010	J	Red/Green LED, Power Indicator	AF
LED4	93G0276-700020	J	Red LED, Power ON/OFF	AE
LED5	93G0276-700020	J	Red LED, Volume Up	AE
LED6	93G0276-700020	J	Red LED, Volume Down	AE
LED7	93G0276-700020	J	Red LED, Menu	AE
LED8	93G0276-700020	J	Red LED, Adjustment ▲	AE
LED9	93G0276-700020	J	Red LED, Adjustment ▼	AE
LED10	93G0276-700020	J	Red LED, Enter	AE

RESISTORS

R1	93G3060022180	J	220	1/8W	AB
R2	93G3060020380	J	20k	1/8W	AB
R3	93G3060036380	J	36k	1/8W	AB
R4	93G3060022180	J	220	1/8W	AB
R5	93G3060022180	J	220	1/8W	AB
R6	93G3060022180	J	220	1/8W	AB
R7	93G3060020380	J	20k	1/8W	AB
R8	93G3060022180	J	220	1/8W	AB
R9	93G3060022180	J	220	1/8W	AB
R10	93G3060022180	J	220	1/8W	AB
R11	93G3060036380	J	36k	1/8W	AB
R12	93G3060091380	J	91k	1/8W	AB

MISCELLANEOUS PARTS

	93G0027-700010	J	Case	AG
	93G0027-740020	J	Rubber Key	AV
	93G0027-090010	J	FFC, 10-pin, L=155mm	AE

Ref. No.	Part No.	★	Description	Code

RDENC0266CEZZ (XV-C100M/E)
POWER UNIT

INTEGRATED CIRCUITS

⚠ IC701	95KUCH0078ZZ	J	HIC, M67209	AM
IC702	95KUCC0043SK	J	TA76431S	AE
IC703	95KUCB0188AZ	J	UPC78N15H-2	AH
IC704	95KUCB0081CZ	J	PQ12RF1	AL
IC705	95KUCB0095CZ	J	PQ12RF11	AH
IC706	95KUCB0156AZ	J	UPC24M08AHF	AM

TRANSISTORS

Q701	95KUAC0234AG	J	2SC3866	AM
Q702	95KUAC0243AK	J	2SC3266	AC
Q703	95KUAC0243AK	J	2SC3266	AC
Q704	95KUAY0013AK	J	2SC1623	AB
Q705	95KUAB0010CZ	J	2SB744	AF
Q706	95KUAB0010CZ	J	2SB744	AF
Q707	95KUAY0013AK	J	2SC1623	AB
Q708	95KUAY0013AK	J	2SC1623	AB
Q709	95KUAY0013AK	J	2SC1623	AB

DIODES

D701	95KUBA0005KZ	J	Diode 1SS55	AB
D702	95KUBC0221AK	J	Diode ERA18-02	AC
D703	95KUBC0248AK	J	Diode 05NU42	AC
D704	95KUBC0248AK	J	Diode 05NU42	AC
D705	95KUBC0215DK	J	Diode ERA15-06	AB
D706	95KUBY0020AK	J	Diode 1SS355TE	AC
D707	95KUBA0005KZ	J	Diode 1SS55	AB
D708	95KUBY0020AK	J	Diode 1SS355TE	AC
D709	95KUBC0264BC	J	Diode ERB32-02	AC
D710	95KUBC0264BC	J	Diode ERB32-02	AC
D711	95KUBC0087BC	J	Diode ERC81-006	AG
D712	95KUBC0265BB	J	Diode ERD32-02	AF
D713	95KUBC0265BB	J	Diode ERD32-02	AF
D714	95KUBY0020AK	J	Diode 1SS355TE	AC
D715	95KUBA0005KZ	J	Diode 1SS55	AB
D716	95KUBA0005KZ	J	Diode 1SS55	AB
D717	95KUBA0005KZ	J	Diode 1SS55	AB
D718	95KUBA0005KZ	J	Diode 1SS55	AB
D719	95KUBY0020AK	J	Diode 1SS355TE	AC
D720	95KUBY0020AK	J	Diode 1SS355TE	AC
D721	95KUBY0020AK	J	Diode 1SS355TE	AC
D722	95KUBC0127EA	J	Diode ERB38-05	AF
D723	95KUBC0127EA	J	Diode ERB38-05	AF
D724	95KUBC0127EA	J	Diode ERB38-05	AF
D725	95KUBC0127EA	J	Diode ERB38-05	AF
ZD701	95KUBDAK3R9C	J	Zener Diode RD3.9ESAB2	AC
ZD703	95KUBDAK180C	J	Zener Diode RD18ESAB2	AB
THY701	95KUDA0084ZZ	J	Thyristor CR04AM-12	AG

PACKAGED CIRCUITS

⚠ PC701	95KUDC0163BB	J	Photo Coupler PC123FY8	AH
⚠ PC702	95KUDC0163BB	J	Photo Coupler PC123FY8	AH
⚠ PC703	95KUDC0163BB	J	Photo Coupler PC123FY8	AH
⚠ PC704	95KUDC0163BB	J	Photo Coupler PC123FY8	AH

TRANSFORMER

⚠ T701	95K829295042	J	PTTX45	BB

CAPACITORS

C701	95KUGBQ470BT	J	47	400V	Block Cap.	AN
C702	95KUGFQ103FB	J	0.01	400V	Film	AC
C703	95KUGCU331AV	J	330p	1kV	Ceramic	AC
C704	95KUGXAED473	J	0.047	25V	Ceramic (Chip)	AB
C705	95KUGAF220RV	J	22	50V	Electrolytic	AD
C706	95KUGXALF101	J	100p	50V	Ceramic (Chip)	AC
C707	95KUGXAED473	J	0.047	25V	Ceramic (Chip)	AB
C708	95KUGXAED473	J	0.047	25V	Ceramic (Chip)	AB
C709	95KUGXAEF103	J	0.01	50V	Ceramic (Chip)	AB
C710	95KUGCU471AK	J	470p	1kV	Ceramic	AB
C711	95KUGAE181TR	J	180	35V	Electrolytic	AD
⚠ C712	95KUGCZ222CX	J	2200p	AC250V	Ceramic	AD

RDENC0266CEZZ (XV-C100M/E)

POWER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
⚠ C713	95KUGCZ222CX	J	2200p	AC250V	Ceramic	AD
C714	95KUGAE820TR	J	82	35V	Electrolytic	AD
C715	95KUGAD390TR	J	39	25V	Electrolytic	AD
C716	95KUGAC471TS	J	470	16V	Electrolytic	AF
C717	95KUGAD471TS	J	470	25V	Electrolytic	AF
C718	95KUGAD102DC	J	1000	25V	Electrolytic	AF
C719	95KUGAD102DC	J	1000	25V	Electrolytic	AF
C720	95KUGAD821TS	J	820	25V	Electrolytic	AF
C721	95KUGAD121TR	J	120	25V	Electrolytic	AD
C722	95KUGAD471TS	J	470	25V	Electrolytic	AF
C723	95KUGCU102BV	J	1000p	1kV	Ceramic	AC
C724	95KUGCU102BV	J	1000p	1kV	Ceramic	AC
C725	95KUGCU102BV	J	1000p	1kV	Ceramic	AC
C726	95KUGCU102BV	J	1000p	1kV	Ceramic	AC
C727	95KUGFF473BQ	J	0.047	50V	Film	AB
C728	95KUGXAEF103	J	0.01	50V	Ceramic (Chip)	AB

RESISTORS

R701	95KUEEC474CH	J	470k	1/2W	Carbon	AC
R702	95KUEEC474CH	J	470k	1/2W	Carbon	AC
R703	95KUEFE563AW	J	56k	2W	Metal Film	AC
R704	95KUEFE563AW	J	56k	2W	Metal Film	AC
R705	95KUEEC823CH	J	82k	1/2W	Carbon	AB
R706	95KUEEC823CH	J	82k	1/2W	Carbon	AB
R707	95KUEEC823CH	J	82k	1/2W	Carbon	AB
R708	95KUEEC563CH	J	56k	1/2W	Carbon	AB
R709	95KUEEC563CH	J	56k	1/2W	Carbon	AB
R710	95KUEEB470DC	J	47	1/4W	Carbon	AB
R711	95KUEEC820CH	J	82	1/2W	Carbon	AB
R712	95KUEEC820CH	J	82	1/2W	Carbon	AB
R713	95KUEEC820CH	J	82	1/2W	Carbon	AB
R714	95KUEFC561BQ	J	560	1/4W	Metal Film	AB
R715	95KUEFC561BQ	J	560	1/4W	Metal Film	AB
R716	95KUEXCAS103	J	10k	1/10W	Chip	AB
R717	95KUEXCAS103	J	10k	1/10W	Chip	AB
R718	95KUEXCAS102	J	1k	1/10W	Chip	AB
R719	95KUEEB472DC	J	4.7k	1/4W	Carbon	AB
R720	95KUEXCAS153	J	15k	1/10W	Chip	AB
R721	95KUEXCAS271	J	270	1/10W	Chip	AB
R722	95KUEXCAS102	J	1k	1/10W	Chip	AB
R723	95KUEEC222CH	J	2.2k	1/2W	Carbon	AB
⚠ R724	95KUEHC825BT	J	8.2M	1/2W	Solid	AD
⚠ R725	95KUEHC825BT	J	8.2M	1/2W	Solid	AD
R726	95KUEXCAS102	J	1k	1/10W	Chip	AB
R728	95KUEXCAS561	J	560	1/10W	Chip	AB
R729	95KUEXCAS561	J	560	1/10W	Chip	AB
R730	95KUEXCAS103	J	10k	1/10W	Chip	AB
R731	95KUEYAA5601	J	5.6k	1/10W	Chip	AB
R732	95KUEYAA2001	J	2k	1/10W	Chip	AB
R733	95KUEYAA4701	J	4.7k	1/10W	Chip	AB
R734	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R735	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R736	95KUEEC272CH	J	2.7k	1/2W	Carbon	AB
R737	95KUEFER47BA	J	0.47	2W	Metal Film	AD
R738	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R739	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R740	95KUEFE4R7AW	J	4.7	2W	Metal Film	AB
R741	95KUEEC272CH	J	2.7k	1/2W	Carbon	AB
R742	95KUEXCAS102	J	1k	1/10W	Chip	AB
R743	95KUEXCAS182	J	1.8k	1/10W	Chip	AB
R744	95KUEXCAS223	J	22k	1/10W	Chip	AB
R745	95KUEXCAS223	J	22k	1/10W	Chip	AB
R746	95KUEXCAS182	J	1.8k	1/10W	Chip	AB
R747	95KUEXCAS223	J	22k	1/10W	Chip	AB
R748	95KUEXCAS223	J	22k	1/10W	Chip	AB
R753	95KUEEC103CH	J	10k	1/2W	Carbon	AB
R768	95KUEEB222DC	J	2.2k	1/4W	Carbon	AB
R769	95KUEXCAS222	J	2.2k	1/10W	Chip	AB
R770	95KUEXCAS102	J	1k	1/10W	Chip	AB
R771	95KUEEC272CH	J	2.7k	1/2W	Carbon	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
CN701	95KPKZ0196ZZ	J	Base Pin, 4-pin (PL)	AC
	95KPKZ0528ZZ	J	Connector, 8-pin (EA)	AD
	95KPKZ0527ZZ	J	Connector, 7-pin (EB)	AC
	95KPKZ0540ZZ	J	Connector, 4-pin (FA)	AB
	95KPKZ0541ZZ	J	Connector, 3-pin (FB)	AB
	95KECB7756ZZ	J	Connecting Cord	AP

DUNTKA001WEV2
POWER UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
⚠ IC701	VHiM67209//-1	J	M67209	AT
⚠ IC702	VHiTA76431S-1	J	TA76431S	AD
⚠ IC703	RH-iX0155CEZZ	J	UPC78M15H	AE
⚠ IC704	RH-iX1843CEZZ	J	PQ12RF1	AF
⚠ IC705	VHiPQ12RF11-1	J	PQ12RF11	AK
⚠ IC706	RH-iX3339CEZZ	J	UPC24M08AHF	AL
⚠ IC707	RH-FX0008GEZZ	J	PC123FY8	AE
⚠ IC708	RH-FX0008GEZZ	J	PC123FY8	AE
⚠ IC709	RH-FX0008GEZZ	J	PC123FY8	AE
⚠ IC710	RH-FX0008GEZZ	J	PC123FY8	AE

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
⚠ Q701	VS2SC3866MR-1	J	2SC3866MR	AM
Q702	VS2SC3266//-1	J	2SC3266	AF
Q703	VS2SC3266//-1	J	2SC3266	AF
Q704	VS2SC1623L51E	J	2SC1623	AB
Q705	VS2SB744-Q/-1	J	2SB744(Q)	AE
Q706	VS2SB744-Q/-1	J	2SB744(Q)	AE
Q707	VS2SC1623L51E	J	2SC1623	AB
Q708	VS2SC1623L51E	J	2SC1623	AB
Q709	VS2SC1623L51E	J	2SC1623	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D701	RH-DX0161CEZZ	J	Diode	AC
D702	VHDERA1802/-1	J	Diode	AB
D703	VHD05NU42//-1	J	Diode	AF
D704	VHD05NU42//-1	J	Diode	AF
D705	RH-DX0220CEZZ	J	Diode	AB
D706	VHD1SS355//-1	J	Diode	AB
D707	RH-DX0161CEZZ	J	Diode	AC
D708	VHD1SS355//-1	J	Diode	AB
⚠ D709	RH-DX0102PEZZ	R	Diode	AD
⚠ D710	RH-DX0102PEZZ	R	Diode	AD
⚠ D711	RH-DX0103PEZZ	R	Diode	AF
⚠ D712	RH-DX0104PEZZ	R	Diode	AF
⚠ D713	RH-DX0104PEZZ	R	Diode	AF
D714	VHD1SS355//-1	J	Diode	AB
D715	RH-DX0161CEZZ	J	Diode	AC
D716	RH-DX0161CEZZ	J	Diode	AC
D717	RH-DX0161CEZZ	J	Diode	AC
D718	RH-DX0161CEZZ	J	Diode	AC
D719	VHD1SS355//-1	J	Diode	AB
D720	VHD1SS355//-1	J	Diode	AB
D721	VHD1SS355//-1	J	Diode	AB
D722	RH-DX0105PEZZ	R	Diode	AD
D723	RH-DX0105PEZZ	R	Diode	AD
D724	RH-DX0105PEZZ	R	Diode	AD
D725	RH-DX0105PEZZ	R	Diode	AD
D726	RH-EX0502PEZZ	R	Zener Diode	AB
D727	RH-EX0503PEZZ	R	Zener Diode	AB
D728	VHSCR04AM//-1	J	Thyristor CR04AM	AF

TRANSFORMER

Ref. No.	Part No.	★	Description	Code
⚠ T701	RTRNZ0171PEZZ	R	Transformer	BB

CAPACITORS

Ref. No.	Part No.	★				Code
C701	RC-EZ0403CEZZ	J	47	400V	Electrolytic	AN
C702	VCFYJU2GA103K	J	0.01	400V	Film	AD
⚠ C703	VCKYPA3AB221K	J	220p	1kV	Ceramic	AC
C704	VCKYTV1EB473K	J	0.047	25V	Ceramic	AB
C705	VCEAVA1HN226M	J	22	50V	Electrolytic	AB
C706	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C707	VCKYTV1EB473K	J	0.047	25V	Ceramic	AB
C708	VCKYTV1EB473K	J	0.047	25V	Ceramic	AB
C709	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
⚠ C710	RC-KZ0382CEZZ	J	470p	1kV	Ceramic	AC
C711	RC-EZ1280CEZZ	J	180	35V	Electrolytic	AD
⚠ C712	RC-KZ0091GEZZ	J	2200p	AC250V	Ceramic	AC
⚠ C713	RC-KZ0091GEZZ	J	2200p	AC250V	Ceramic	AC
C714	RC-EZ1281CEZZ	J	82	35V	Electrolytic	AC
C715	RC-EZ1282CEZZ	J	39	25V	Electrolytic	AC
C716	RC-EZ1315CEZZ	J	470	16V	Electrolytic	AF
C717	RC-EZ1097CEZZ	J	470	25V	Electrolytic	AF
C718	VCEAVA1EN108M	J	1000	25V	Electrolytic	AD
C719	VCEAVA1EN108M	J	1000	25V	Electrolytic	AD
C720	RC-EZ1314CEZZ	J	820	25V	Electrolytic	AF
C721	RC-EZ1284CEZZ	J	120	25V	Electrolytic	AD
C722	RC-EZ1097CEZZ	J	470	25V	Electrolytic	AF
⚠ C723	RC-KZ1026CEZZ	J	1000p	1kV	Ceramic	AC
⚠ C724	RC-KZ1026CEZZ	J	1000p	1kV	Ceramic	AC
⚠ C725	RC-KZ1026CEZZ	J	1000p	1kV	Ceramic	AC
⚠ C726	RC-KZ1026CEZZ	J	1000p	1kV	Ceramic	AC
C727	RC-QZA473TAYK	J	0.047	50V	Film	AB
C728	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R701	VRD-RM2HD474J	J	470k	1/2W	Carbon	AB
R702	VRD-RM2HD474J	J	470k	1/2W	Carbon	AB
R703	RR-SZ0072CEZZ	J	56k	2W	Metal Film	AC
R704	RR-SZ0072CEZZ	J	56k	2W	Metal Film	AC
R705	VRD-RM2HD823J	J	82k	1/2W	Carbon	AA
R706	VRD-RM2HD823J	J	82k	1/2W	Carbon	AA
R707	VRD-RM2HD823J	J	82k	1/2W	Carbon	AA
R708	VRD-RM2HD563J	J	56k	1/2W	Carbon	AA
R709	VRD-RM2HD563J	J	56k	1/2W	Carbon	AA
R710	VRD-RA2BE470J	J	47	1/8W	Carbon	AA
R711	VRD-RM2HD820J	J	82	1/2W	Carbon	AA
R712	VRD-RM2HD820J	J	82	1/2W	Carbon	AA
R713	VRD-RM2HD820J	J	82	1/2W	Carbon	AA
R714	RR-SZ0079CEZZ	J	560	1/2	Metal Film	AC
R715	RR-SZ0079CEZZ	J	560	1/2	Metal Film	AC
R716	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R717	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R718	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide	AA
R719	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	AA
R720	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R721	VRS-TV1JD391J	J	390	1/10W	Metal Oxide	AA
R722	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide	AA
R723	VRD-RM2HD222J	J	2.2k	1/2W	Carbon	AA
⚠ R724	VRC-UA2HG825K	J	8.2M	1/2W	Solid	AA
⚠ R725	VRC-UA2HG825K	J	8.2M	1/2W	Solid	AA
R726	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide	AA
R728	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R729	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R730	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R731	VRN-TV1JD562D	J	5.6k	1/10W	Metal Film	AA
R732	VRN-TV1JD242D	J	2.4k	1/10W	Metal Film	AA
R733	VRN-TV1JD472D	J	4.7k	1/10W	Metal Film	AA
R734	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R735	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R736	VRD-RM2HD272J	J	2.7k	1/2W	Carbon	AA
R737	RR-SZ0073CEZZ	J	0.47	2W	Metal Film	AD
R738	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R739	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R740	RR-SZ0074CEZZ	J	4.7	2W	Metal Film	AD
R741	VRD-RM2HD272J	J	2.7k	1/2W	Carbon	AA
R742	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide	AA
R743	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R744	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R745	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R746	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R747	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R748	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R753	VRD-RM2HD103J	J	10k	1/2W	Carbon	AA
R768	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA
R769	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R770	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide	AA
R771	VRD-RM2HD272J	J	2.7k	1/2W	Carbon	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
P701	QPLGN0467GEZZ	J	Plug, 4-pin (PL)	AB
P702	QPLGN0378GEZZ	J	Plug, 3-pin (FB)	AB
P703	QPLGN0478GEZZ	J	Plug, 4-pin (FA)	AB
P704	QPLGN0778GEZZ	J	Plug, 7-pin (EB)	AC
P705	QPLGN0878GEZZ	J	Plug, 8-pin (EA)	AC

Ref. No.	Part No.	★	Description	Code

DUNTKA001WEV2
POWER UNIT (Continued)

RDA701	PRDAR0285PEFW	R	Heat Sink, for IC704/IC705	AF
RDA702	PRDAR0285PEFW	R	Heat Sink, for Q701	AF
	QCNW-5405CEZZ	J	Connecting Cord	AG
	QCNW-5406CEZZ	J	Connecting Cord	AC
	LX-BZ3049GEFD	J	Screw	AA
	XNESD30-24000	J	Nut	AA

Ref. No.	Part No.	★	Description	Code

RDENC0265CEZZ(XVC100M)
RDENC0262CEZZ(XV-C100E)
BALLAST UNIT

INTEGRATED CIRCUITS

IC1701	95KUCZ0091ZZ	J	M5T494P	AK
IC1703	95KUCB0147AZ	J	UPC24M12AHF (XV-C100M)	AL

TRANSISTORS

Q1701	95KUAG0099DZ	J	2SK1938	AV
Q1702	95KUAA0083AK	J	2SA1680	AE
Q1703	95KUAC0262BZ	J	2SC4672 (Chip)	AE
Q1704	95KUAY0042AK	J	2SC3624	AD
Q1705	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q1707	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q1708	95KUAY0012AK	J	2SA812 (Chip)	AB
Q1709	95KUAY0012AK	J	2SA812 (Chip)	AB
Q1710	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q1711	95KUAY0012AK	J	2SA812 (Chip)	AB
Q1712	95KUAY0012AK	J	2SA812 (Chip)	AB

DIODES

D1701	95KUBC0221AK	J	Diode ERA18-02	AC
D1703	95KUBC0284BZ	J	Diode YG912S6	AP
D1705	95KUBC0190BZ	J	Diode ERC38-05	AG
D1706	95KUBY0033AK	J	Diode (Chip) U1JU44	AE
D1707	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1708	95KUBC0284BZ	J	Diode YG912S6	AP
D1709	95KUBY0033AK	J	Diode (Chip) U1JU44	AE
D1710	95KUBC0318AK	J	Diode 1R5NH41	AF
D1711	95KUBC0318AK	J	Diode 1R5NH41	AF
D1712	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1714	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1715	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1716	95KUBC0221AK	J	Diode ERA18-02	AC
D1717	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1718	95KUBY0020AK	J	Diode (Chip) 1SS355 (XV-C100M)	AC
DS1701	95KUBB0087DZ	J	Diode Stack D5SB60	AR
ZD1701	95KUBXAD270A	J	Zener Diode RD27SB	AD
ZD1702	95KUBXAD100C	J	Zener Diode RD10SB2	AD
ZD1703	95KUBXAD100C	J	Zener Diode RD10SB2	AD
ZD1704	95KUBXAD6R2C	J	Zener Diode RD6.2SB2	AD
ZD1705	95KUBXAD6R2C	J	Zener Diode RD6.2SB2	AD
ZD1706	95KUBXAD6R2C	J	Zener Diode RD6.2SB2	AD
THY1701	95KUDA0083ZZ	J	Thyristor SF8JZ47	AM
THY1702	95KUDA0083ZZ	J	Thyristor SF8JZ47	AM
THY1703	95KUDA0078AK	J	Thyristor CR02AM-8	AF

PCKAGED CIRCUIT

⚠ PC1701	95KUDC0163BB	J	Photo Coupler PC123FY8		AH

COILS AND TRANSFORMERS

⚠ L1701	95KUKZ0595ZZ	J	Filter TLF25RA802W3R5		AP
⚠ L1702	95KUKZ0632ZZ	J	Filter TLF25RA502W6R0		AQ
L1703	95K829695023	J	Trans. CHT071		BB
T1701	95K829195004	J	Trans. DTTX03		BB
⚠ T1702	95K748295012	J	Trans. J6C04-9001		BH

CONTROLS

VR1701	95KUFBA103CX	J	10k			AC
VR1702	95KUFBA103CX	J	10k			AC
VR1703	95KUFBA223DB	J	22k			AE

CAPACITORS

⚠ C1701	95KUGZ1080ZZ	J	0.22	AC250V	Film		AF
⚠ C1702	95KUGZ1080ZZ	J	0.22	AC250V	Film		AF
⚠ C1704	95KUGCZ102HH	J	1000p	2kV	Ceramic	(XV-C100M)	AD
⚠ C1704	95KUGCM332BP	J	3300p	2kV	Ceramic	(XV-C100E)	AE
C1705	95KUGZ1108ZZ	J	180	400V	Block Cap.		AR
C1706	95KUGZ1108ZZ	J	180	400V	Block Cap.		AR
C1708	95KUGAE101RX	J	100	35V	Electrolytic		AD

RDENC0265CEZZ(XVC100M)
RDENC0262CEZZ(XV-C100E)
BALLAST UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C1709	95KUGCU331AV	J	330p 1kV Ceramic	AC
C1710	95KUGFQ225HA	J	2.2 400V Film	AK
C1711	95KUGXAEF333	J	0.033 50V Ceramic (Chip)	AB
C1712	95KUGZ0956ZZ	J	0.33 400V Film	AH
C1713	95KUGZ0956ZZ	J	0.33 400V Film	AH
C1714	95KUGFL103HQ	J	0.01 400V Film	AD
C1715	95KUGXAFC105	J	1 16V Ceramic (Chip)	AD
C1716	95KUGXAED104	J	0.1 25V Ceramic (Chip)	AB
C1717	95KUGXAFF104	J	0.1 50V Ceramic (Chip)	AB
C1718	95KUGXAED473	J	0.047 25V Ceramic (Chip)	AB
C1719	95KUGXAEF102	J	1000p 50V Ceramic (Chip)	AA
C1720	95KUGXAEF103	J	0.01 50V Ceramic (Chip)	AB
C1721	95KUGXAFC105	J	1 16V Ceramic (Chip)	AD
C1722	95KUGAF100RV	J	10 50V Electrolytic	AC
C1723	95KUGAE101RX	J	100 35V Electrolytic	AD
C1724	95KUGXAEF103	J	0.01 50V Ceramic (Chip)	AB
C1725	95KUGFT103HA	J	0.01 630V Film	AF
C1726	95KUGCU221AS	J	220p 1kV Ceramic	AD
⚠ C1727	95KUGCM222BA	J	2200p 1kV Ceramic	AD
C1728	95KUGAE101RX	J	100 35V Electrolytic (XV-C100M)	AD
C1729	95KUGAE470RX	J	47 35V Electrolytic (XV-C100M)	AD
C1730	95KUGXAED104	J	0.1 25V Ceramic (Chip)	AB
C1731	95KUGFQ224EN	J	0.22 400V Film	AG

RESISTORS

⚠ R1702	95KUEEC474CH	J	470k	1/2W	Carbon	AC
R1705	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1706	95KUEXCAS2R2	J	2.2	1/10W	Chip	AB
R1707	95KUEEB220DC	J	22	1/10W	Carbon	AB
R1708	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1709	95KUEXCAS331	J	330	1/10W	Chip	AB
R1710	95KUESR050DB	J	0.05	2W	Precision Res.	AE
R1711	95KUEEC331CH	J	330	1/2W	Carbon	AB
R1712	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1713	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1714	95KUEFE822CS	J	8.2k	2W	Metal Film	AC
R1715	95KUEFE822CS	J	8.2k	2W	Metal Film	AC
R1716	95KUEFE223BM	J	22k	2W	Metal Film	AC
R1717	95KUES4703CQ	J	470k	1/2W	Precision Res.	AC
R1718	95KUES3902CK	J	39k	1/2W	Precision Res.	AB
R1719	95KUES4702CK	J	47k	1/4W	Precision Res.	AB
R1720	95KUEEC472CH	J	4.7k	1/2W	Carbon	AB
R1721	95KUEEB331DC	J	330	1/4W	Carbon	AB
R1722	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1723	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1724	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R1725	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1726	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1727	95KUEXCAS333	J	33k	1/10W	Chip	AB
R1728	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1729	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R1730	95KUEXCAU272	J	2.7k	1/10W	Chip	AB
R1731	95KUEXCAS333	J	33k	1/10W	Chip	AB
R1732	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1733	95KUEXCAS332	J	3.3k	1/10W	Chip	AB
R1734	95KUEXCAS822	J	8.2k	1/10W	Chip	AB
R1735	95KUEXCAS105	J	1M	1/10W	Chip	AB
R1736	95KUEXCAS105	J	1M	1/10W	Chip	AB
R1737	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1738	95KUEXCAU183	J	18k	1/10W	Chip	AB
R1739	95KUEXCAS183	J	18k	1/10W	Chip	AB
R1740	95KUEXCAS223	J	22k	1/10W	Chip	AB
R1741	95KUEXCAS223	J	22k	1/10W	Chip	AB
R1742	95KUEXCAS223	J	22k	1/10W	Chip	AB
R1743	95KUEXCAS123	J	12k	1/10W	Chip	AB
R1747	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1748	95KUEXCAS221	J	220	1/10W	Chip	AB
R1749	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1750	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R1751	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R1752	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R1753	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1754	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1755	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R1756	95KUEXCAS222	J	2.2k	1/10W	Chip	AB
R1757	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1758	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1759	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1760	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1761	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R1762	95KUEXCAS823	J	82k	1/10W	Chip	AB
R1763	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1764	95KUEXCAS103	J	10k	1/10W	Chip	AB
R1765	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R1766	95KUEXCAS682	J	6.8k	1/10W	Chip	AB
R1767	95KUEXCAS821	J	820	1/10W	Chip	AB
R1768	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R1769	95KUEXCAS102	J	1k	1/10W	Chip	AB
R1770	95KUEZ0611ZZ	J	470k	1/2W	Metal Film	AC
R1771	95KUEZ0611ZZ	J	470k	1/2W	Metal Film	AC
R1772	95KUEXCAS822	J	8.2k	1/10W	Chip	AB
R1773	95KUDC0231ZZ	J	Themistor KL15L003TL (XV-C100M)			AG
R1774	95KUEXCAU562	J	5.6k	1/10W	Chip	AB
ZD1707	95KUEXCAS223	J	22k	1/10W	Chip	AB

SWITCH

⚠ SW1701	95KPFZ0282ZZ	J	Power (QSW-P0591CEZZ)	AQ

MISCELLANEOUS PARTS

⚠ F1701	95KPJCZZ0059	J	Fuse T5AH 250V	AH
⚠ F1702	95KPJT0136ZZ	J	Thermal Fuse H130AE	AE
FH1701	95KPZZ0625ZZ	J	Fuse Holder	AB
FB1701	95KUKZ0476ZL	J	Ferrite Bead	AC
FB1702	95KUKZ0828ZZ	J	Ferrite Bead	AC
FB1703	95KUKZ0828ZZ	J	Ferrite Bead	AC
FB1705	95KBFZ89250Z	J	Ferrite Bead	AB
FB1706	95KBFZ89250Z	J	Ferrite Bead	AB
FB1707	95KBFZ89250Z	J	Ferrite Bead	AB
FB1708	95KBFZ89250Z	J	Ferrite Bead	AB
RY1701	95KPHZ0183ZZ	J	Relay DG12D1-0 (XV-C100M)	AN
CN1701	95KPKZ0196ZZ	J	Base Pin, 4-pin (PL)	AC
CN1702	95KPKZ0522ZZ	J	Connector, 2-pin (D)	AB
CN1703A	95KPCZ0246ZZ	J	Connector, 8-pin	AD
CN1703B	95KPCZ0245ZZ	J	Connector, 8-pin	AE
	95KPKZ0194ZZ	J	Connector, 2-pin (PE)	AC

DUNTKA009WEV0/V1
BALLAST UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
⚠IC1701	VHiM5T494P/-1	R	M5T494P	AL
⚠IC1703	RH-iX3340CEZZ	J	UPC24M12AHF (XV-C100A/M)	AM
⚠IC1711	RH-FX0008GEZZ	J	PC123FY8	AE
TRANSISTORS				
⚠Q1701	VS2SK1938//-1	J	2SK1938	AV
⚠Q1702	VS2SA1680//-1	J	2SA1680	AD
⚠Q1703	VS2SC4672Q/-1	J	2SC4672Q	AE
Q1704	VS2SC3624L51E	J	2SC3624	AD
Q1705	VS2SC1623L51E	J	2SC1623	AB
Q1707	VS2SC1623L51E	J	2SC1623	AB
Q1708	VS2SA812-M/1E	J	2SA812(M)	AC
Q1709	VS2SA812-M/1E	J	2SA812(M)	AC
Q1710	VS2SC1623L51E	J	2SC1623	AB
Q1711	VS2SA812-M/1E	J	2SA812(M)	AC
Q1712	VS2SA812-M/1E	J	2SA812(M)	AC
DIODES				
⚠D1700	RH-DX0485CEZZ	J	Diode	AG
D1701	VHDERA1802/-1	J	Diode	AB
⚠D1703	RH-DX0434CEZZ	J	Diode	AK
D1705	RH-DX0107PEZZ	R	Diode	AG
D1706	VHDU1JU44//-1	J	Diode	AE
D1707	VHD1SS355//-1	J	Diode	AB
D1708	RH-DX0434CEZZ	J	Diode	AK
D1709	VHDU1JU44//-1	J	Diode	AE
D1710	VHD1R5NH41/-1	J	Diode	AF
D1711	VHD1R5NH41/-1	J	Diode	AF
D1712	VHD1SS355//-1	J	Diode	AB
D1714	VHD1SS355//-1	J	Diode	AB
D1715	VHD1SS355//-1	J	Diode	AB
D1716	VHDERA1802/-1	J	Diode	AB
D1717	VHD1SS355//-1	J	Diode	AB
D1718	VHD1SS355//-1	J	Diode (XV-C100A/M)	AB
D1750	RH-EX0743CEZZ	J	Zener Diode	AC
D1751	RH-EX0726CEZZ	J	Zener Diode	AC
D1752	RH-EX0726CEZZ	J	Zener Diode	AD
D1753	RH-EX0704CEZZ	J	Zener Diode	AD
D1754	RH-EX0704CEZZ	J	Zener Diode	AD
D1755	RH-EX0704CEZZ	J	Zener Diode	BE
⚠D1756	VHSSF8JZ47/-1	J	Diode	BE
⚠D1757	VHSSF8JZ47/-1	J	Diode	AF
D1758	VHSCR02AM//-1	J	Diode	AF
⚠TH1773	RH-HZ0103PEZZ	R	Thermister (XV-C100A/M)	
COILS				
⚠L1701	RCiLF0351CEZZ	J	Coil	AQ
⚠L1702	RCiLF0352CEZZ	J	Coil	AQ
TRANFORMERS				
⚠T1701	RTRNZ0169PEZZ	R	Transformer	BB
⚠T1702	RDENU0007CEZZ	J	Transformer	BK
⚠T1703	RTRNZ0170PEZZ	R	Transformer	BB
CONTROLS				
R1790	RVR-M4786GEZZ	J	10k(B)	AB
R1791	RVR-M4786GEZZ	J	10k(B)	AB
R1792	RVR-M4788GEZZ	J	22k(B)	AB
CAPACITORS				
⚠C1701	RC-FZ032CUMZZ	J	0.22 AC250V Film	AF
⚠C1702	RC-FZ032CUMZZ	J	0.22 AC250V Film	AF
⚠C1704	RC-KZ0103GEZZ	J	1000p 2kV Magnetic (XV-C100A/M)	AD
⚠C1704	RC-KZ0106GEZZ	J	3300p 2kV Magnetic (XV-C100E)	AG
⚠C1705	RC-EZ1285CEZZ	J	180 400V Electrolytic	AS
⚠C1706	RC-EZ1285CEZZ	J	180 400V Electrolytic	AS
C1708	VCEA4A1VN107M	J	100 35V Electrolytic	AC
⚠C1709	VCKYPA3AB331K	J	330p 1kV Ceramic	AC
⚠C1710	RC-FZ1003CEZZ	J	2.2 400V Film	AK
C1711	VCKYTV1HB333K	J	0.033 50V Ceramic	AA
C1712	RC-FZ1004CEZZ	J	0.33 400V Film	AH
C1713	RC-FZ1004CEZZ	J	0.33 400V Film	AH
C1714	RC-FZ1005CEZZ	J	2.2 400V Film	AD
C1715	VCKYTV1CF105Z	J	1.0 16V Ceramic	AB
C1716	VCKYTV1EB104K	J	0.1 25V Ceramic	AB
C1717	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C1718	VCKYTV1EB473K	J	0.047 25V Ceramic	AB
C1719	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C1720	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1721	VCKYTV1CF105Z	J	1.0 16V Ceramic	AB
C1722	VCEAVA1HN106M	J	10 50V Electrolytic	AB
C1723	VCEA4A1VN107M	J	100 35V Electrolytic	AC
C1724	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
⚠C1725	RC-FZ1006CEZZ	J	0.01 630V Film	AF
⚠C1726	VCKYPA3AB221K	J	220p 1kV Ceramic	AC
⚠C1727	RC-KZ0091GEZZ	J	2200p 1kV Ceramic	AC
C1728	VCEA4A1VN107M	J	100 35V Electrolytic (XV-C100A/M)	AC
C1729	VCEA4A1VN476M	J	47 35V Electrolytic (XV-C100A/M)	AC
C1730	VCKYTV1EB104K	J	0.1 25V Ceramic	AB
⚠C1731	VCFYJU2GA224K	J	0.22 400V Mylar (XV-C100E)	AG
RESISTORS				
R1702	VRD-RM2HD474J	J	470k 1/2W Carbon	AB
R1705	VRS-TV1JD102J	J	1.0k 1/10W Metal Oxide	AA
R1706	VRS-TV1JD2R2J	J	2.2 1/10W Metal Oxide	AA
R1707	VRD-RA2BE220J	J	22 1/8W Carbon	AA
R1708	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
R1709	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
⚠R1710	RR-WZ0177CEZZ	J	0.05 2W	AE
R1711	VRD-RM2HD331J	J	330 1/2W Carbon	AA
R1712	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1713	VRS-TV1JD102J	J	1.0k 1/10W Metal Oxide	AA
R1714	RR-SZ0076CEZZ	J	8.2k 2W Metal Film	AC
R1715	RR-SZ0076CEZZ	J	8.2k 2W Metal Film	AC
R1716	RR-SZ0077CEZZ	J	22k 2W Metal Film	AD
R1717	VRD-RM2HD474G	J	470k 1/2W Carbon	AC
R1718	VRD-RA2BE393G	J	39k 1/8W Carbon	AA
R1719	VRD-RA2BE473G	J	47k 1/8W Carbon	AA
R1720	VRD-RM2HD472J	J	4.7k 1/2W Carbon	AA
R1721	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R1722	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
R1723	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R1724	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1725	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
R1726	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1727	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1728	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1729	VRD-RA2BE513J	J	51k 1/8W Carbon	AA
R1730	VRS-TV1JD272F	J	2.7k 1/10W Metal Oxide	AA
R1731	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1732	VRS-TV1JD102J	J	1.0k 1/10W Metal Oxide	AA
R1733	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1734	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1735	VRS-TV1JD105J	J	1.0M 1/10W Metal Oxide	AA
R1736	VRS-TV1JD105J	J	1.0M 1/10W Metal Oxide	AA
R1737	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1738	VRS-TV1JD183F	J	18k 1/10W Metal Oxide	AA
R1739	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1740	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1741	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1742	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1743	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1747	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1748	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R1749	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1750	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
R1751	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
R1752	VRD-RA2BE473J	J	47k 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code

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BALLAST UNIT (Continued)

R1753	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide		AA
R1754	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide		AA
R1755	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide		AA
R1756	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide		AA
R1757	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide		AA
R1758	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide		AA
R1759	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide		AA
R1760	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide		AA
R1761	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide		AA
R1762	VRS-TV1JD823J	J	82k	1/10W	Metal Oxide		AA
R1763	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide		AA
R1764	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide		AA
R1765	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide		AA
R1766	VRS-TV1JD682J	J	6.8k	1/10W	Metal Oxide		AA
R1767	VRS-TV1JD821J	J	820	1/10W	Metal Oxide		AA
R1768	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide		AA
R1769	VRS-TV1JD102J	J	1.0k	1/10W	Metal Oxide		AA
⚠ R1770	VRC-UA2HG474K	J	470k	1/2W	Solid		AA
⚠ R1771	VRC-UA2HG474K	J	470k	1/2W	Solid		AA
R1772	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide		AA
R1774	VRS-TV1JD562F	J	5.6k	1/10W	Metal Oxide		AA
R1793	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide		AA
R1794	VRS-TV1JD000J	J	0	1/10W	Metal Oxide		AA
R1795	VRS-TV1JD000J	J	0	1/10W	Metal Oxide		AA
R1796	VRS-TV1JD000J	J	0	1/10W	Metal Oxide		AA
R1797	VRS-TV1JD000J	J	0	1/10W	Metal Oxide		AA

SWITCH

⚠ S1701	QSW-P0591CEZZ	J	Power	AQ

MISCELLANEOUS PARTS

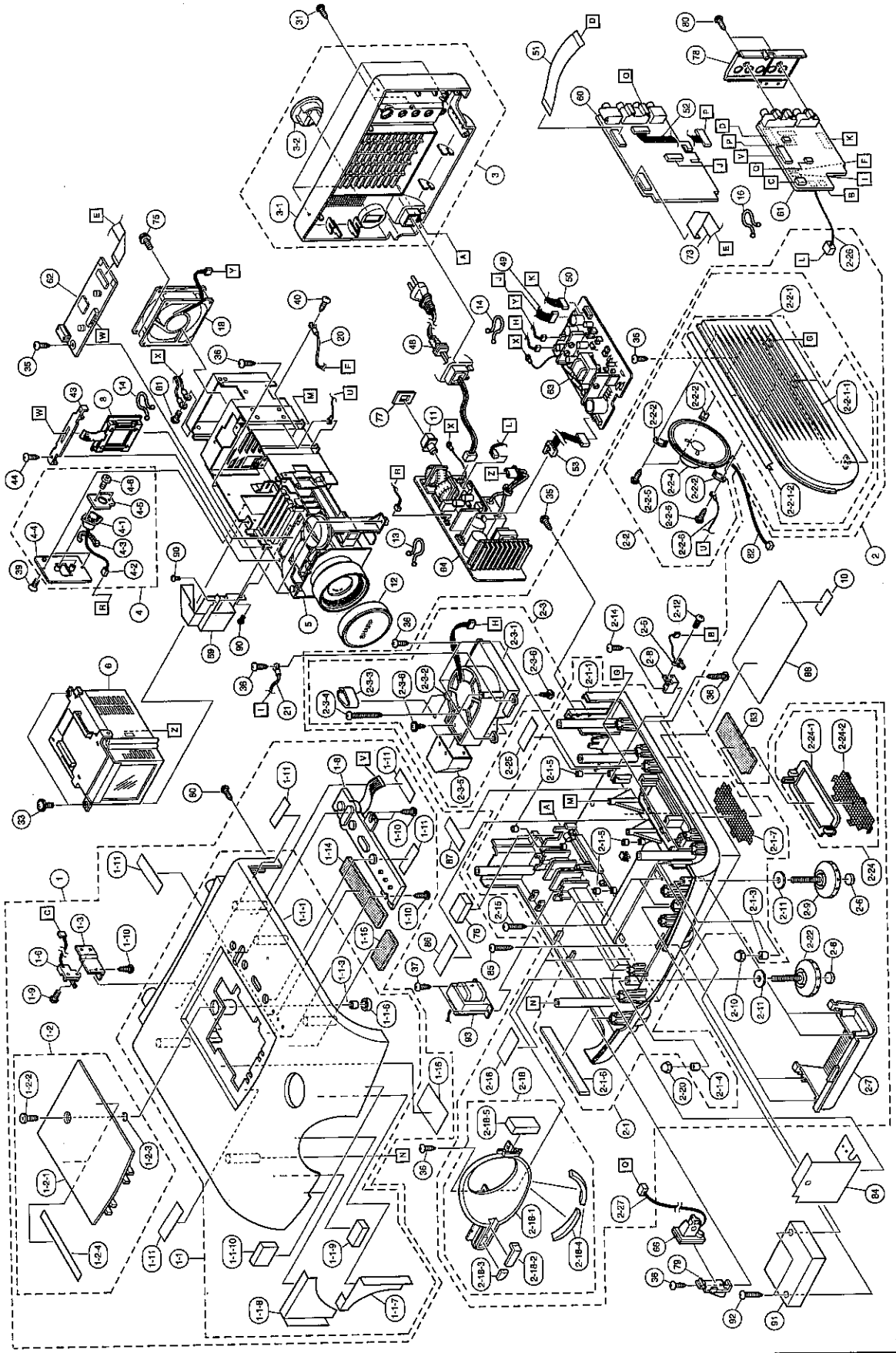
⚠ F1701	QFS-C5027CEZZ	J	Fuse 5A 250V	AG
⚠ F1702	QFS-T0103CEZZ	J	Thermal Fuse H130	AE
FB1701	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB1702	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB1703	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB1705	RBLN-0007CEZZ	J	Ferrite Bead	AB
FB1706	RBLN-0007CEZZ	J	Ferrite Bead	AB
FB1707	RBLN-0007CEZZ	J	Ferrite Bead	AB
FB1708	RBLN-0007CEZZ	J	Ferrite Bead	AB
⚠ RY1701	RRLYJ0091CEZZ	J	Relay (XV-C100A/M)	AM
FH1701	QFSHD1009CEZZ	J	Fuse Holder	AA
FH1702	QFSHD1010CEZZ	J	Fuse Holder	AA
P1701	QPLGN0467GEZZ	J	Plug, 4-pin (PL)	AB
P1702	QPLGN0278GEZZ	J	Plug, 2-pin (D)	AA
P1703	QPLGN0269GEZZ	J	Plug, 2-pin (PE)	AB
P1704	QPLGN0453FJZZ	J	Plug, 2-pin (BA)	AC
P1705	QPLGN0267GEZZ	J	Plug, 2-pin (PC) (XV-C100E)	AA
P1706	QPLGN0859REZZ	J	Plug, 8-pin	AG
SC1701	QSOCN0898REZZ	J	Socket, 8-pin	AE
RDA1701	PRDAR0287PEFW	R	Heat Sink, for D1700	AD
RDA1702	PRDAR0288PEFW	R	Heat Sink, for Q1701	AG
	QCNW-5407CEZZ	J	Connecting Cord	AC
	LX-BZ3049GEFD	J	Screw	AA

Ref. No.	Part No.	★	Description	Code

CABINET AND MECHANICAL PARTS

1	*Not Available*	–	Top Cabinet Ass'y(XV-C100A)	—
1	*Not Available*	–	Top Cabinet Ass'y(XV-C100M)	—
1	*Not Available*	–	Top Cabinet Ass'y(XV-C100E)	—
1-1	DBDYT0005WEK1	R	Top Cabinet Ass'y	BC
1-1-1	*Not Available*	–	Top Cabinet	—
1-1-3	*Not Available*	–	Outsert Nut	—
1-1-6	*Not Available*	–	Cover, x1	—
1-1-7	PSPAZ0021PE00	R	Spacer-Left, for Lens Cover	AE
1-1-8	PSPAZ0022PE00	R	Spacer-Right, for Lens Cover	AE
1-1-9	PMLT-0024PEZZ	R	Spacer	AB
1-1-10	PMLT-0021PEZZ	R	Spacer, x2	AC
1-2	CDORT0013WEK0	R	Lamp Cage Cover Ass'y (XV-C100A)	AT
1-2	CDORT0014WEK0	R	Lamp Cage Cover Ass'y (XV-C100M)	AT
1-2	CDORT0016WEK0	R	Lamp Cage Cover Ass'y (XV-C100E)	AT
1-2-1	*Not Available*	–	Lamp Cage Cover (XV-C100A)	—
1-2-1	*Not Available*	–	Lamp Cage Cover (XV-C100M)	—
1-2-1	*Not Available*	–	Lamp Cage Cover (XV-C100E)	—
1-2-2	LX-BZ3366CESC	J	Special Screw, x1	AF
1-2-3	XRESJ30-06000	J	E-Ring, x1	AA
1-2-4	PSHEF0001PE00	R	Spacer, x2	AB
1-3	LANGK0092PEFW	R	Leaf Switch Angle	AE
1-6	QCNW-4674CEZZ	J	Leaf Switch-1 (LL)	AK
1-8	*Not Available*	–	Operation Key Unit	—
1-9	XBPSF26P06000	J	Screw, x1, for Leaf SW.	AA
1-10	XEBSD30P10000	J	Screw, x4	AA
1-11	PSPAT0002PEZZ	R	Teflon Tape, x6	AB
1-14	PMLT-0022PEZZ	R	Spacer	AC
1-15	PMLT-0023PEZZ	R	Spacer	AC
1-16	PSPAT0001PEZZ	R	Teflon Tape	AD
2	*Not Available*	–	Bottom Cabinet Ass'y	—
2-1	DBDYU0002WEK1	R	Bottom Cabinet Ass'y	BC
2-1-1	*Not Available*	–	Bottom Cabinet	—
2-1-3	*Not Available*	–	Outsert Nut-Right	—
2-1-4	*Not Available*	–	Outsert Nut-Left	—
2-1-5	*Not Available*	–	Outsert Nut, x4	—
2-1-6	PSPAH0151PE00	R	Spacer	AC
2-1-7	HPNC-0002PE00	R	Punching Plate	AH
2-2	*Not Available*	–	Side Cover Ass'y	—
2-2-1	DCOVA0107WEK0	R	Side Cover (Right Side)	AU
2-2-1-1	*Not Available*	–	Side Cover	—
2-2-1-2	PSPAH0151PE00	R	Spacer	AC
2-2-2	LANGS0011PEFW	R	Speaker Angle, x3	AD
2-2-4	VSP0065PB228A	J	Speaker	AL
2-2-5	XEBSD30P08000	J	Screw, x3	AA
2-2-6	QCNW-4958CEZZ	J	Speaker Earth Wire	AD
2-3	CDUC-0002WEK0	R	Intake Duct Ass'y	BD
2-3-1	*Not Available*	–	Intake Duct	—
2-3-2	NFANS0005CEZZ	J	Cooling Fan (Intake Vent)	BB
2-3-3	LHLDW1019TAZZ	J	Wire Holder	AB
2-3-4	XUPSD40P40000	J	Screw, x2 for Fan	AB
2-3-5	PDUC-0003PEFW	R	Duct	AH
2-3-6	LX-BZ3266CEFD	J	Screw, x4 for Duct	AA
2-5	QCNW-4961CEZZ	J	Leaf Switch-2 (LF)	AH
2-6	GLEGG9027CESB	J	Rubber Foot, x2	AB
2-7	JHNDP0011PEKA	R	Carrying Handle	AK
2-8	LANGQ0086PEFW	R	Cabinet/Leaf SW. Angle	AE
2-9	LX-BZ0012PESA	R	Adjuster-Right	AF
2-10	LX-NZ3095CEFD	J	Nut-Right	AA
2-11	PSPAH0140PE00	R	Adjuster Spacer, x2	AB
2-12	XBPSF26P06000	J	Screw, x1 for Leaf SW.	AA
2-14	XEBSD30P10000	J	Screw, x1	AA
2-15	XEBSD30P16000	J	Screw, x2	AA
2-16	PSPAT0001PEZZ	R	Teflon Tape, x2	AD
2-18	CCOVA0109WEK0	R	Lens Cover Ass'y	AS

CABINET AND MECHANICAL PARTS / GEHÄUSE UND MECHANISCHE BAUTEILE 壳罩与及机械零件分解图



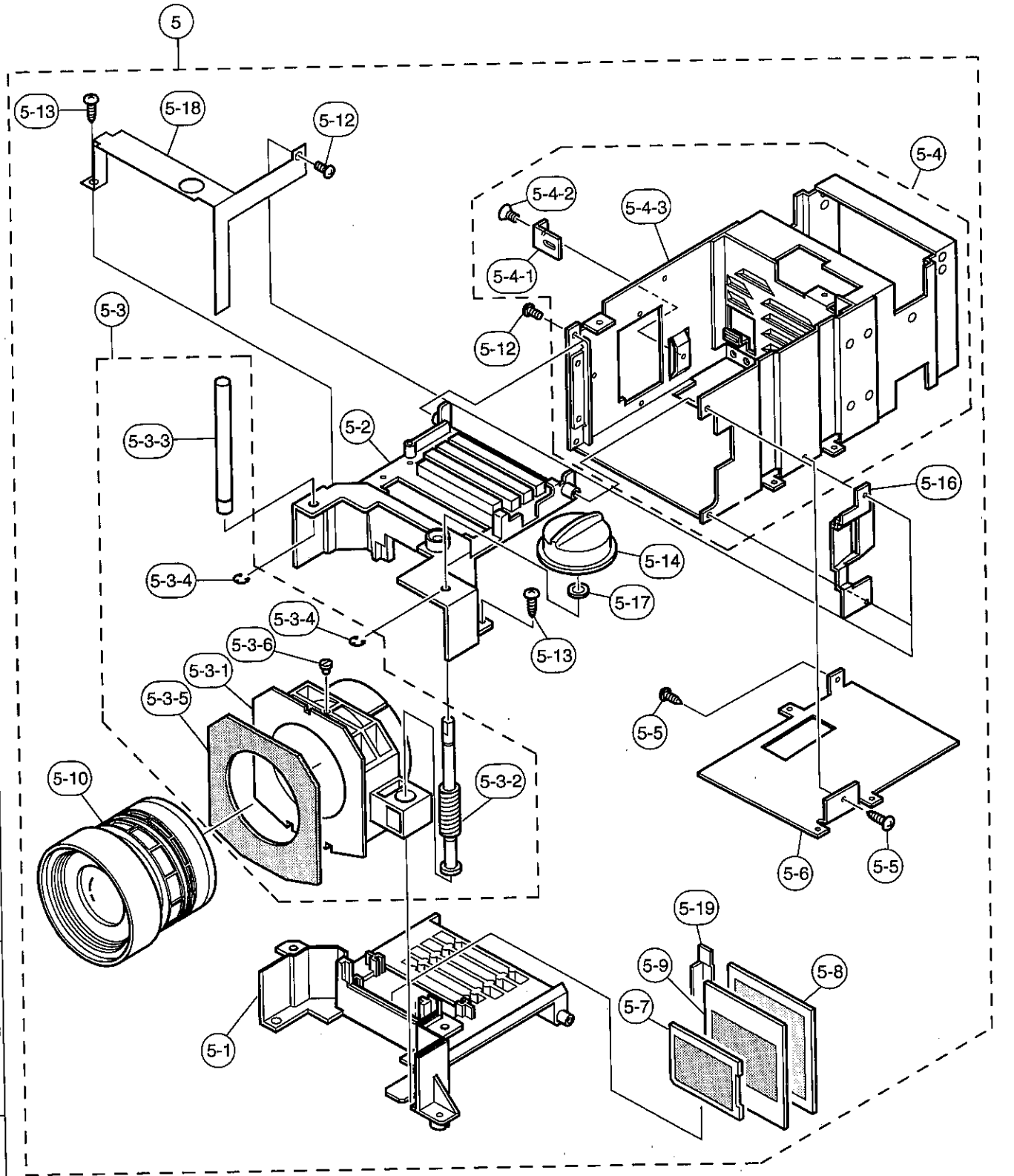
CABINET AND MECHANICAL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
2-18-1	*Not Available*	–	Lens Cover	—
2-18-2	GCOVA0111PESA	R	R/C Cover	AE
2-18-3	GCOVA0112PESA	R	Indication Cover	AH
2-18-4	PMLT-0022PEZZ	R	Spacer, x2	AC
2-18-5	PMLT-0024PEZZ	R	Spacer	AB
2-20	LX-NZ3123CEFE	J	Nut-Left	AD
2-22	LX-BZ0013PESA	R	Adjuster-Left	AF
2-24	CCOVA0108WEK0	R	Air Filter Cover Ass'y	AR
2-24-1	*Not Available*	–	Air Filter Cover	—
2-24-2	*Not Available*	–	Punching Plate	—
2-25	PSPAT0002PEZZ	R	Teflon Tape, x1	AB
2-26	QCNW-5034CEZZ	J	Connecting Wire (D)	AF
2-27	QCNW-5035CEZZ	J	Connecting Wire (RA)	AF
3	CBDYR0005WEK0	R	Rear Cabinet Ass'y	AW
3-1	*Not Available*	–	Rear Cabinet	—
3-2	*Not Available*	–	AC Cord Cover	—
⚠4	CBiM-0001WEV1	R	Bimetal Ass'y	BA
⚠4-1	RBiM-0001CEZZ	J	Bimetal	AN
4-2	QCNW-4724CEZZ	J	Connecting Wire	AF
4-3	LHLDW1033CEKZ	J	Wire Holder, x1	AA
4-4	LHLDZ0122PEKZ	R	Bimetal Board	AM
4-5	PSPAF0002PEFW	R	Bimetal Spacer	AD
4-6	LX-BZ3331CEFF	J	Screw, x2	AA
5	*Refer to Optics Mechanism Parts*			
⚠6	*Refer to Lamp/Cage Module Unit Parts*			
8	DLCPP0064WEV0	R	LCD Module Unit	
10	*Not Available*	–	Serial Number Label (XV-C100A)	—
10	*Not Available*	–	Serial Number Label (XV-C100M)	—
10	*Not Available*	–	Serial Number Label (XV-C100E)	—
11	JKNBP0011PESA	R	Button, Main Power Switch	AD
12	PCAPH1061CESB	J	Lens Cap	AH
13	LHLDW1064CEZZ	J	Wire Holder, x1	AB
14	LHLDW1060CEZZ	J	Wire Holder, x2	AB
16	LHLDW1003GEZZ	J	Wire Holder, x1	AA
18	NFANR0076CE00	J	Cooling Fan (Exhaust Vent)	AT
20	RH-HZ0053CEZZ	J	Thermistor	AM
21	RH-HZ0054CEZZ	J	Thermistor	AM
31	LX-TZ3090CESA	J	Screw, x6 for Rear Cab.	AC
33	XBPSD40P10JS0	J	Screw, x2 for Lamp Case	AA
35	XEBSD30P08000	J	Screw, x3	AA
36	XEBSD30P10000	J	Screw, x19	AA
37	XEBSD40P08000	J	Screw, x2 (XV-C100E)	AA
39	XBSSD30P06000	J	Screw, x2	AA
40	XBBSD30P06000	J	Screw	AA
43	LHLDZ0119PEKZ	R	Panel Holder	AD
44	XJPSF30P08000	J	Screw, x1 for Panel Holder	AA
⚠48	QACCZ3023PEZZ	R	AC Cord (XV-C100A)	AM
⚠48	QACCV2001PEZZ	R	AC Cord (XV-C100M, XV-C100E)	AN
49	QCNW-4841CEZZ	J	Connecting Wire 7-pin (EB)	AG
50	QCNW-5033CEZZ	J	Connecting Wire 8-pin (EA)	AH
51	QCNW-4820CEZZ	J	Connecting Wire 30-pin (TA)	AH
52	QCNW-5036CEZZ	J	Connecting Wire (TB)	AM
53	95KECB7756ZZ	J	Connecting Wire 4-pin (PL)	AP
60	*Not Available*	–	Main Unit	—
61	*Not Available*	–	Sub Unit	—
62	*Not Available*	–	Control Unit	—
63	*Not Available*	–	Power Unit	—
64	*Not Available*	–	Ballast Unit	—
66	*Not Available*	–	R/C Receiver Unit	—
73	QCNW-5032CEZZ	J	Connecting Wire (CA) 20-pin	AG
75	LX-BZ3397CEFD	J	Screw, x2 for Exhaust Fan	AA
76	PMLT-0020PEZZ	R	Spacer	AB
77	PSHEP0002PE00	R	Cover for Button	AC
78	GCOVA0110PEKA	R	Cover for Sub Unit	AN
79	LHLDF0043PEKZ	R	R/C Holder	AE
80	LX-EZ3002CESA	J	Screw, x3	AC
81	XHPSD30P08WS0	J	Screw, x1	AA
82	QCNW-4957CEZZ	J	Speaker Lead Wire (SP)	AE
83	PFiLD0002PEZZ	R	Intake Air Filter	AD
84	PSHEP0001PE00	R	Shielding Plate	AK
85	XEBSD30P16000	J	Screw, x2	AA
86	PSPAT0001PEZZ	R	Teflon Tape	AD
87	PSPAT0002PEZZ	R	Teflon Tape	AB
88	TLABM1523PESA	R	Model Label (XV-C100A)	AH
88	TLABM1524PESA	R	Model Label (XV-C100M)	AH
88	TLABM1528PESA	R	Model Label (XV-C100E)	AH
89	PDUC-0004PEFW	R	Duct	AG
90	XEPSF30P06000	J	Screw, x2 for Duct	AA
91	LANGH0026PEFD	R	Bracket (XV-C100E)	AP
92	XJBSD30P25000	J	Screw, x2 (XV-C100E)	AA
⚠93	RTRNC0075CEZZ	J	Choke Trans (XV-C100E)	AX

OPTICS MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
5	CCHSK0070CEK5	J	Optics Mecha. Ass'y	CD
5-1	LCHSK0070CEKZ	J	Optical Box, Bottom	AR
5-2	LCHSK0071CEKZ	J	Optical Box, Top	AR
5-3	CCHSK0057CE01	J	Shift Mecha. Ass'y	AZ
5-3-1	LHLDZ0103CEKZ	J	Shift Mecha. Base	AQ
5-3-2	NSFTD0007CEFW	J	Shift Screw	AN
5-3-3	NSFTD0008CEFW	J	Guide Bar	AH
5-3-4	XRESJ40-06000	J	E-Ring, x2	AA
5-3-5	PMLT-0303CE00	J	Light Shielding Sheet	AE
5-3-6	LX-TZ0102CEFW	J	Special Screw	AG
5-4	CHLDZ3055CE02	J	Lamp House Ass'y	BA
5-4-1	LANGT9001CEFW	J	Lamp Socket Angle	AF
5-4-2	XBSSD30P04000	J	Screw, x1	AA
5-4-3	LHLDZ2014CEFW	J	Lamp House Base	AN
5-5	XBPSF30P04000	J	Screw, x2 for Cover	AA
5-6	PCOVW9004CEZZ	J	Cover	AL
5-7	PFiLW0200CEZZ	J	Diffraction Grating	BB
5-8	PFiLW0202CEZZ	J	Heat Managiment Plate	BN
5-9	PFiLW0164CEZZ	J	Polarizer Input Plate	AU
5-10	PLNS-0124CEZZ	J	Projection Lens	BS
5-12	XJPSF30P06000	J	Screw, x3	AA
5-13	XJPSF30P08000	J	Screw, x2	AA
5-14	JKNBZ1079CESC	J	Lens Shift Dial	AH
5-16	PDUC-0078CEFW	J	Duct	AH
5-17	PSPAZ0283CEZZ	J	Spacer	AC
5-18	PSHEP0152CEZZ	J	Shielding Plate	AK
5-19	LHLDZ2098CE00	J	Holder	AD

OPTICS MECHANISM PARTS / TEILE FÜR OPTIKMECHANISMUS
光学机械装置的零件分解图



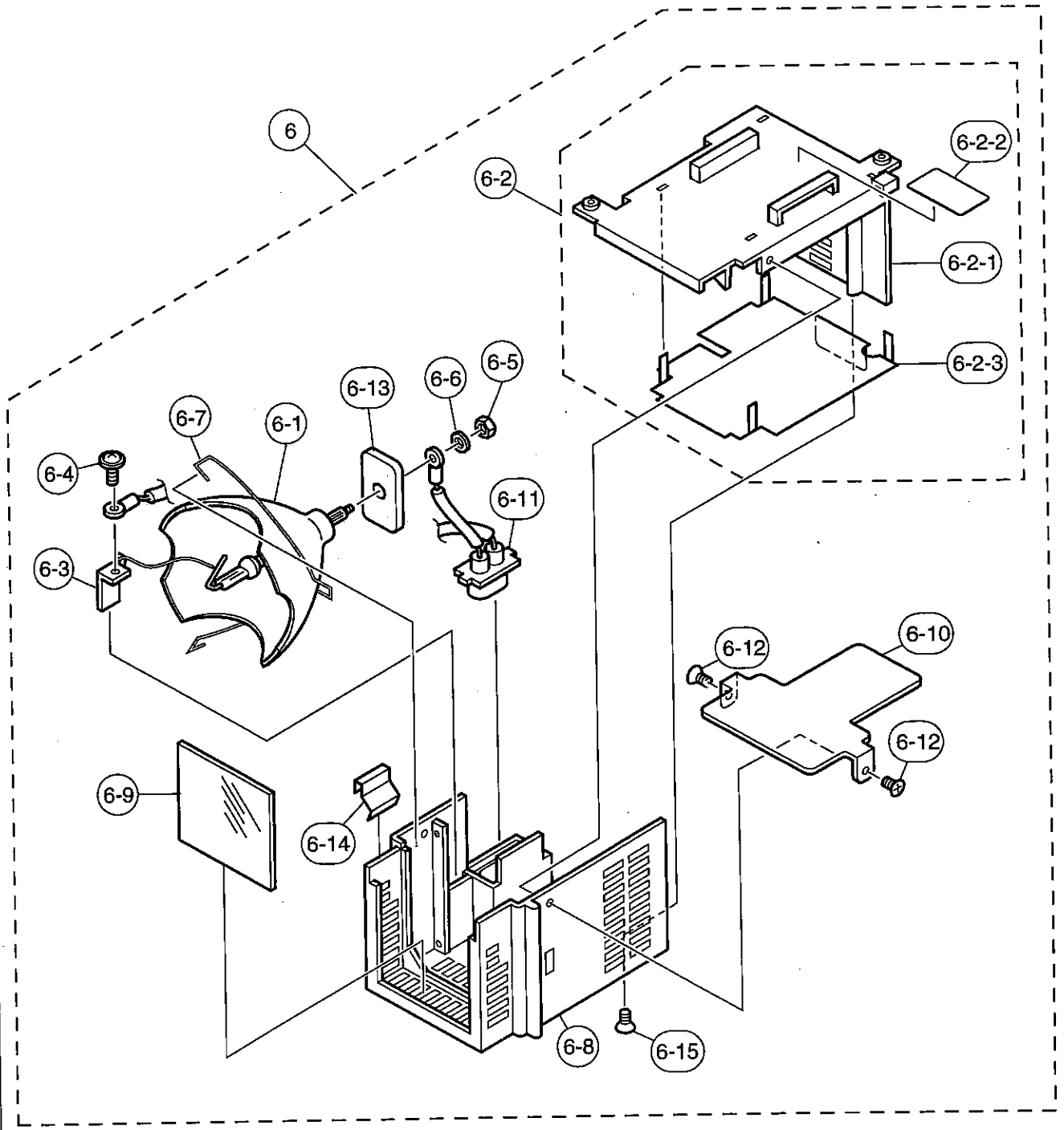
Ref. No.	Part No.	★	Description	Code

LAMP/CAGE MODULE UNIT PARTS

⚠ 6	BQC-XVC10A//1	J	Lamp/Cage Module Unit	CG
⚠ 6-1	CLMPF0053DE03	J	Lamp/Mirror Ass'y	CC
6-2	CCASZ1030CE02	J	Lamp Case Ass'y, Upper	AW
6-2-1	*Not Available*	–	Lamp Case, Upper	—
6-2-2	TLABZ0626CEZZ	J	Label	AC
6-2-3	PSLDH3064CEFW	J	Heat Sink	AE
6-3	LANGQ9192CEFN	J	Angle	AF
6-4	LX-BZ3270CEFN	J	Screw, x1	AA
6-5	LX-NZ3108CEFN	J	Nut, x1	AA
6-6	LX-WZ3102CEFN	J	Washer, x1	AA
6-7	MSPRB0031CEFW	J	Spring, x1	AD
6-8	PCASZ1029CEKZ	J	Lamp Case, Lower	AR
6-9	PFILW0194CEZZ	J	UV/IR Filter	BB
6-10	PRDAR1531CEFW	J	Heat Sink	AD
6-11	QPLGN0156FJZZ	J	Plug	AN
6-12	XBSSD30P08000	J	Screw, x2	AA
6-13	PSLDH3053CEFW	J	Heat Sink	AE
6-14	MSPRK0058CEFW	J	Spring for Glass	AD
6-15	XBSSD30P06000	J	Screw, x1	AA

LAMP/CAGE MODULE UNIT PARTS / TEILE DER LAMPEN/KÄFIGMODULEINHEIT

灯室装置的零件分解图



Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

ACCESSORIES

PFiLD0002PEZZ	R	Extra Air Filter	AD
RRMCG1540PESA	R	Infrared R/C Unit	AZ
QCNW-5123CEZZ	J	AV Cable (XV-C100E)	AX
QSOCZ0305CEZZ	J	21-pin RCA Adaptor (XV-C100E)	AQ
TiNS-6719PEZZ	R	Operation Manual (XV-C100A)	AL
TiNS-6720PEZZ	R	Operation Manual (XV-C100M)	AN
TiNS-6723PEZZ	R	Operation Manual (XV-C100E)	AR
TCADH0016PEZZ	R	Operation Guide (XV-C100E)	AE

ACCESSORIES
(NOT REPLACEMENT ITEM)

TCADS3004PEZZ	–	SS List (XV-C100A)	—
TCADE0002PEZZ	–	Register Card (XV-C100E)	—
–	–	AAA Type Batteries, x2	—

Ref. No.	Part No.	★	Description	Code

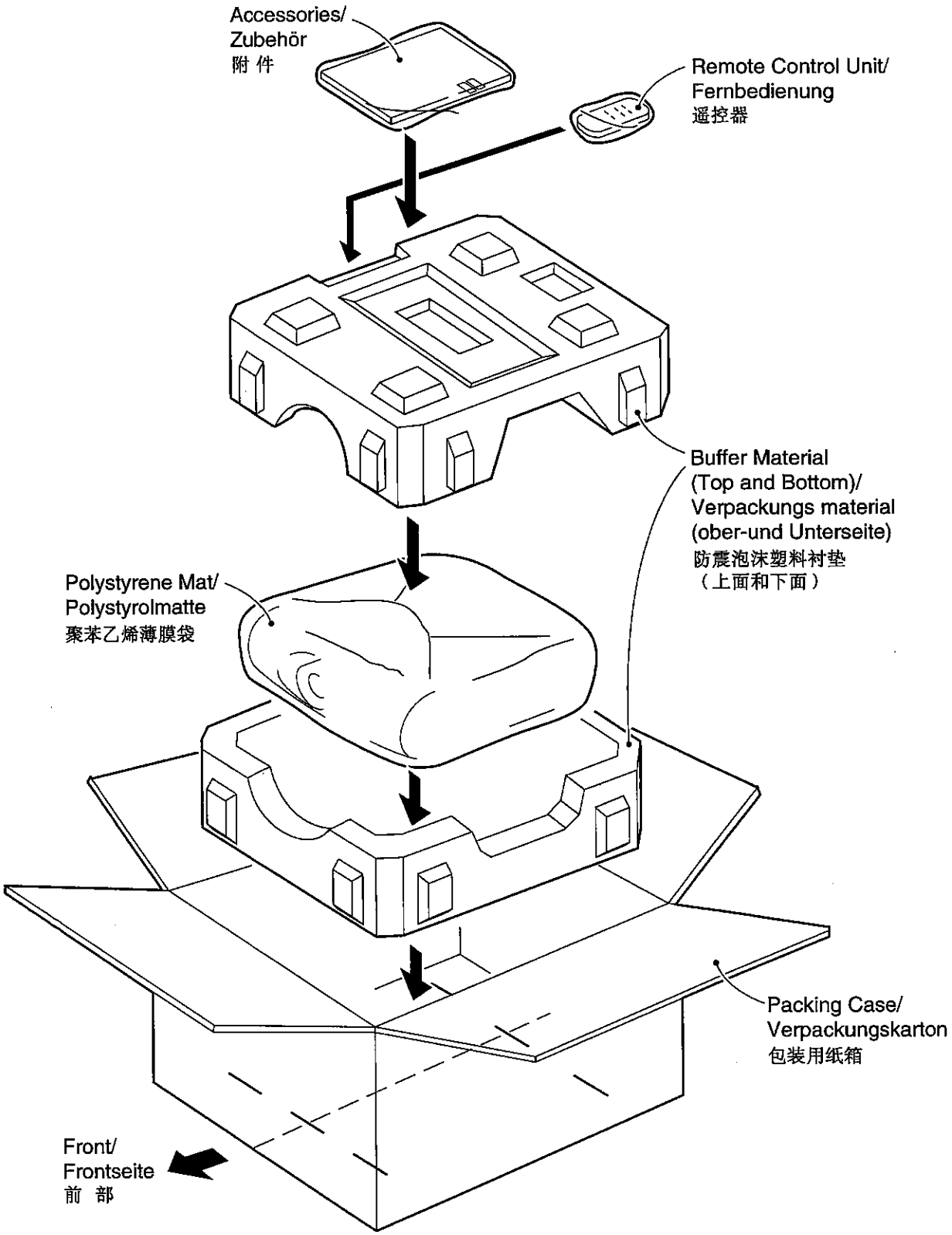
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKC6540PEZZ	–	Packing Case (XV-C100A)	—
SPAKC6541PEZZ	–	Packing Case (XV-C100M)	—
SPAKC6543PEZZ	–	Packing Case (XV-C100E)	—
SPAKP0145PEZZ	–	Polystyrene Mat	—
SPAKX2716PEZZ	–	Buffer Material	—
TLABK0002PEZZ	–	Number Card	—
TLABN0001PEZZ	–	Serial Number Label	—

SERVICE JIGS
(Use for servicing)

QCNW-4889CEZZ	J	(EA) Cable Power-Sub	AM
QCNW-4890CEZZ	J	(EB) Cable Power-Sub	AM
QCNW-4753CEZZ	J	(CA) Cable Main-Output	AS
QCNW-4892CEZZ	J	(TA) Cable Main-Sub	AS
RUNTK0624CEZZ	J	Operation Key Unit	BA

PACKING OF THE SET / VERPACKEN DES GERÄTS
包装方法



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